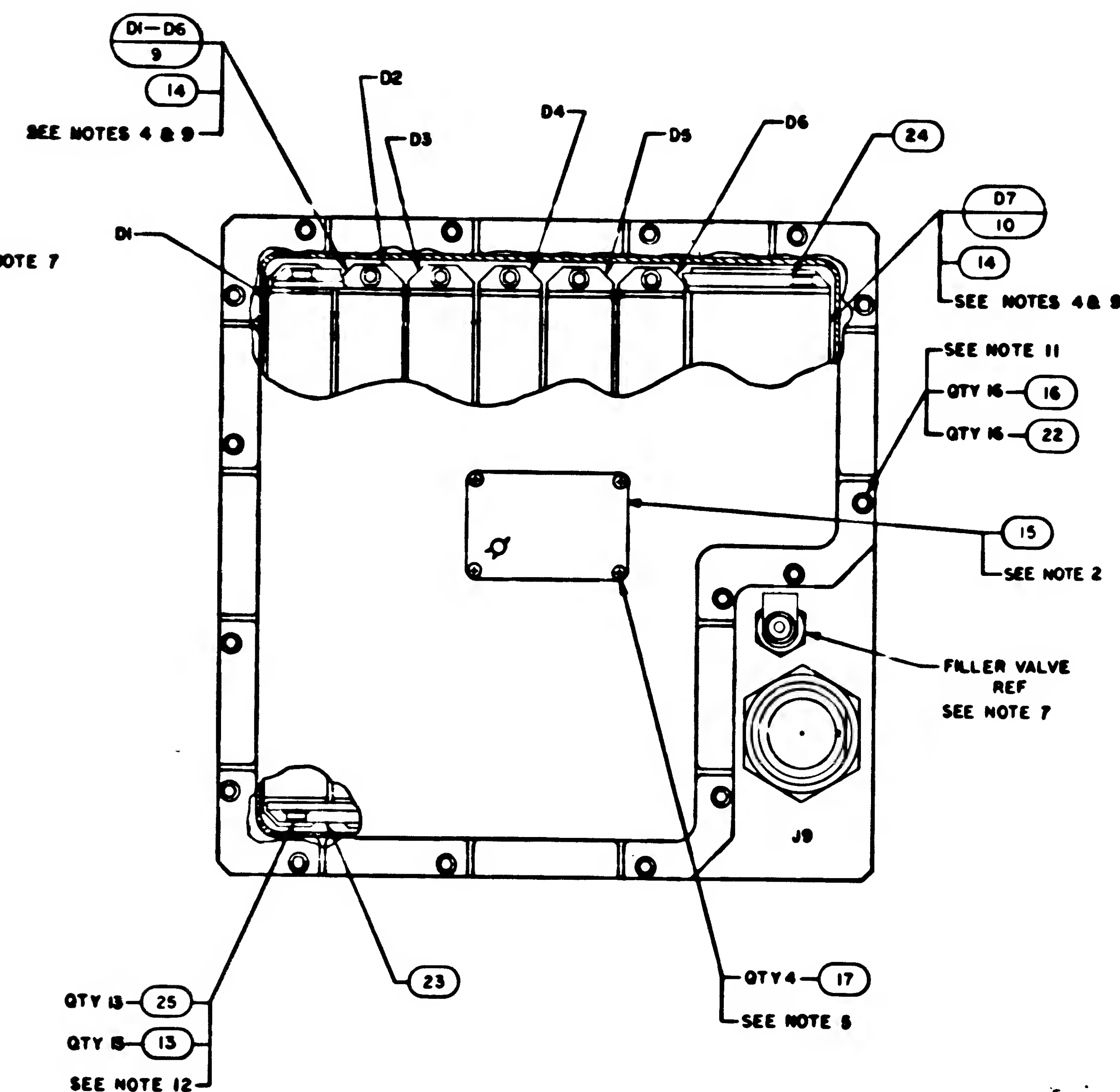
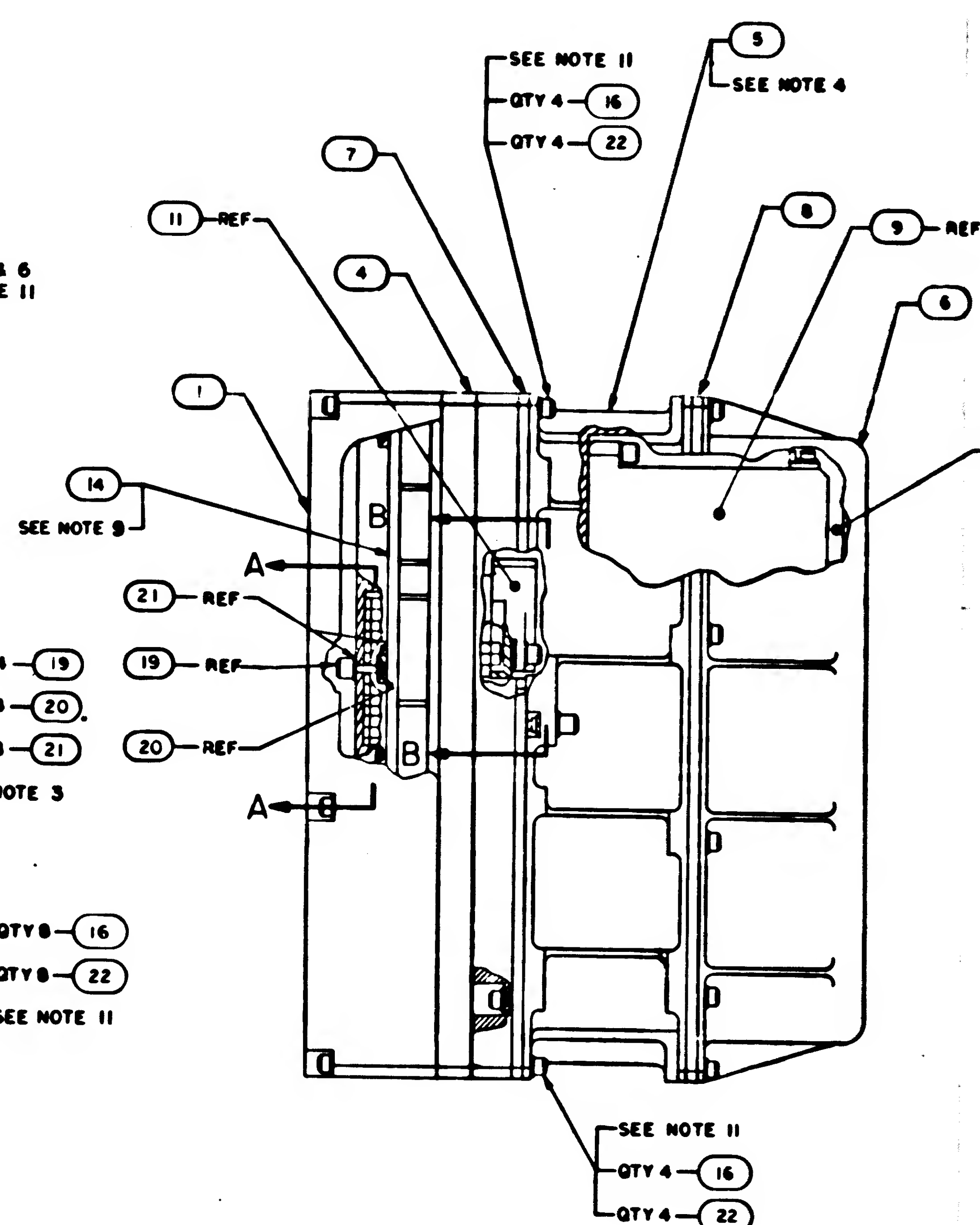
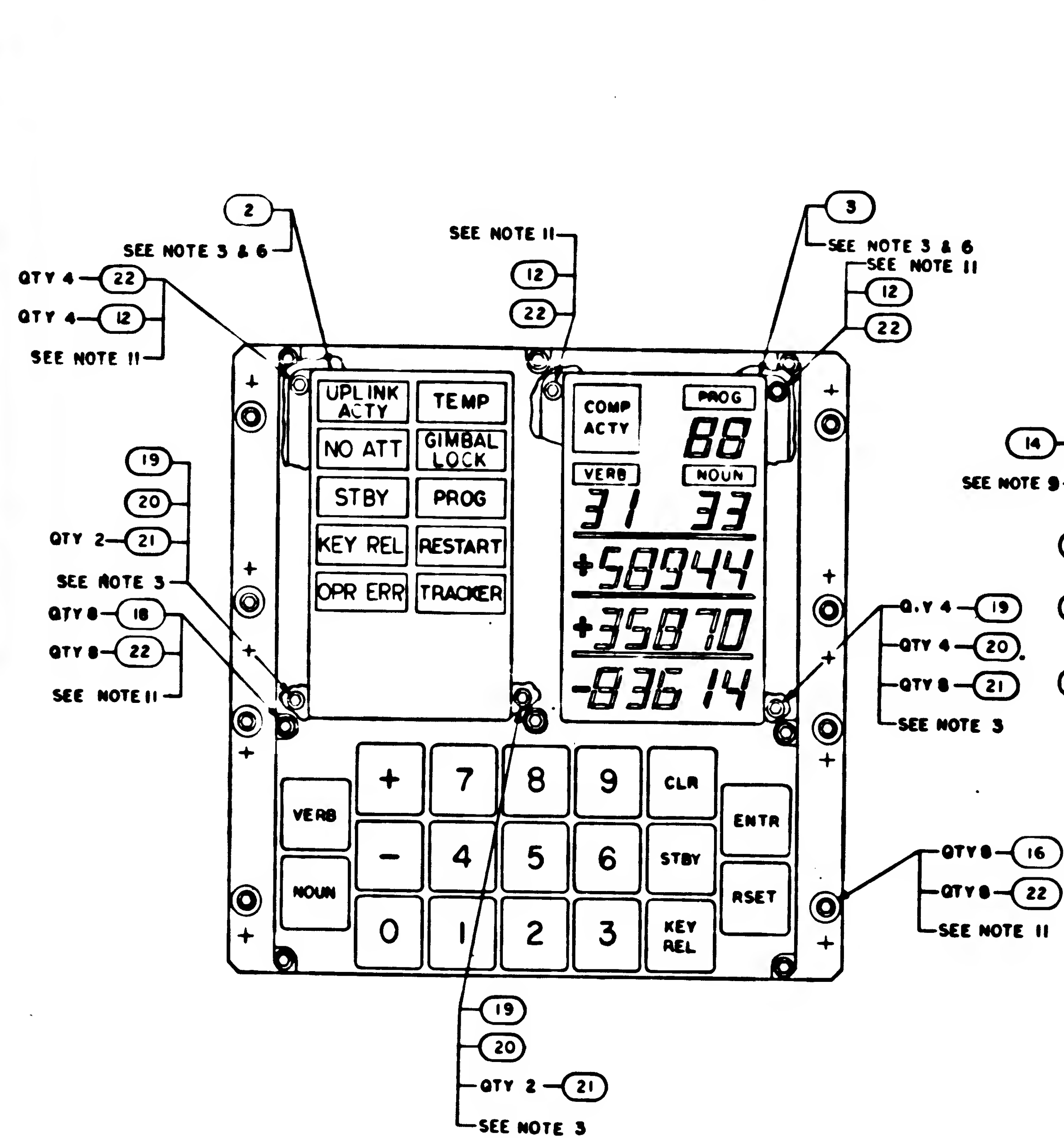


PARTIAL SECTION B-B

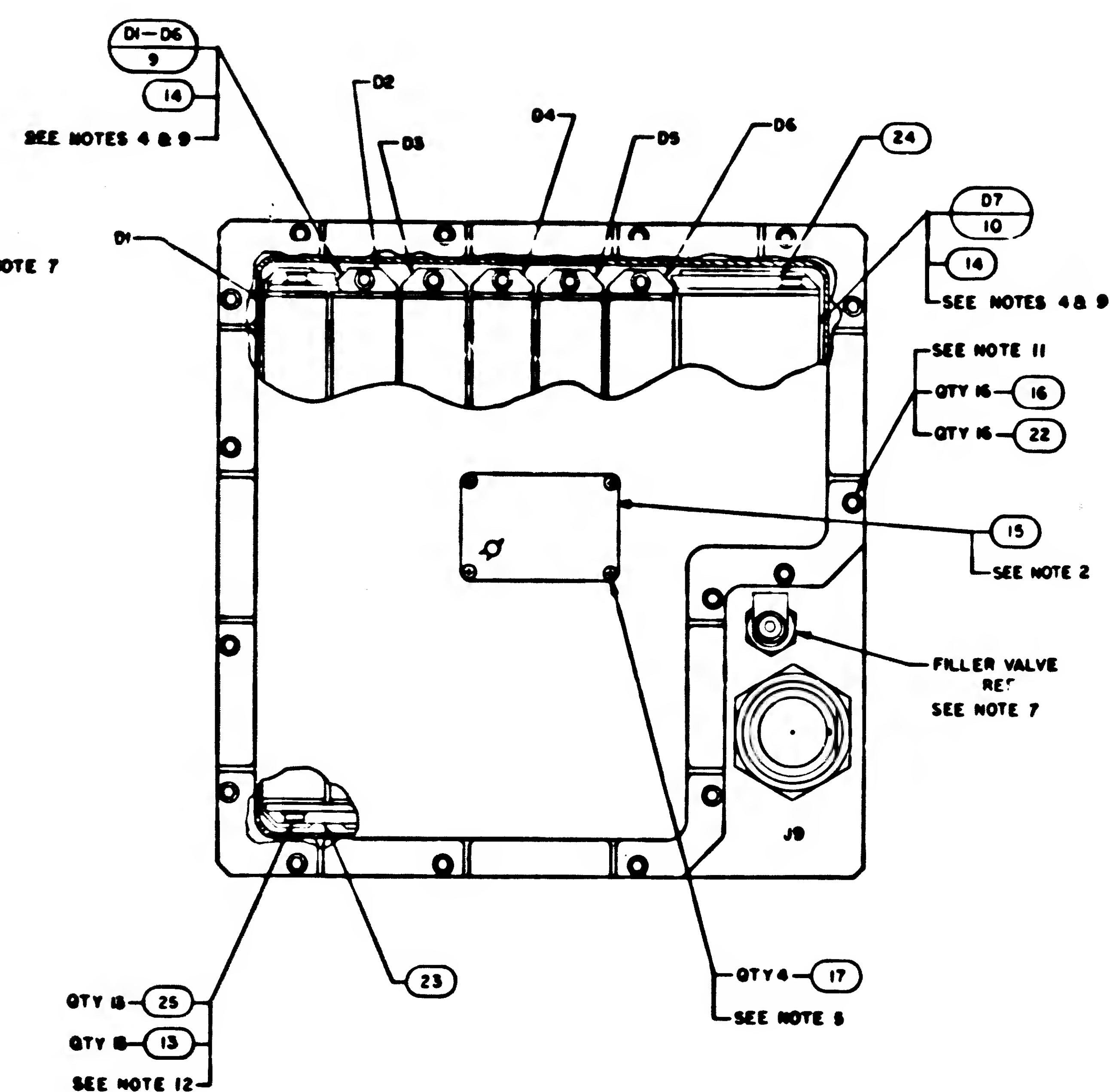
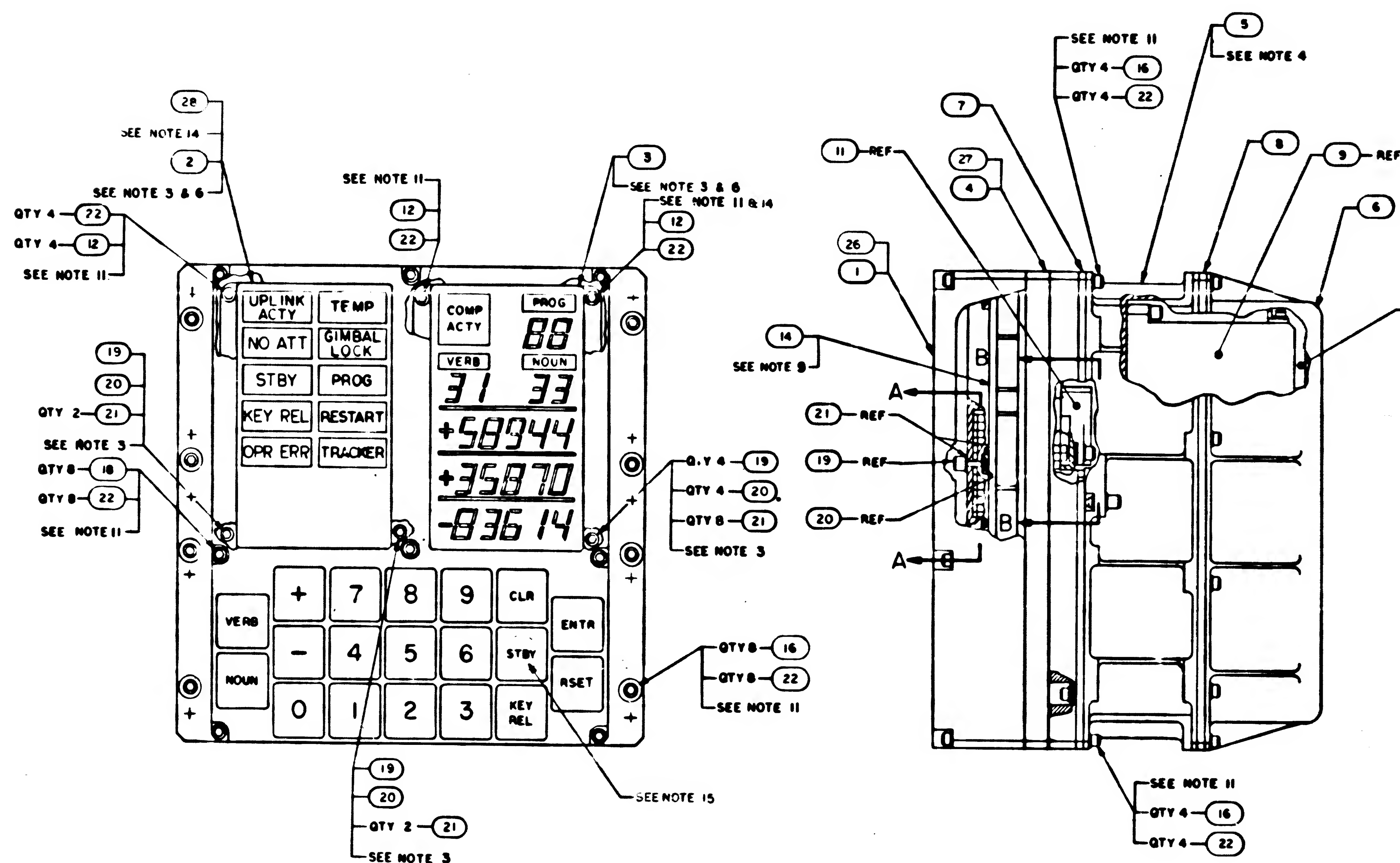
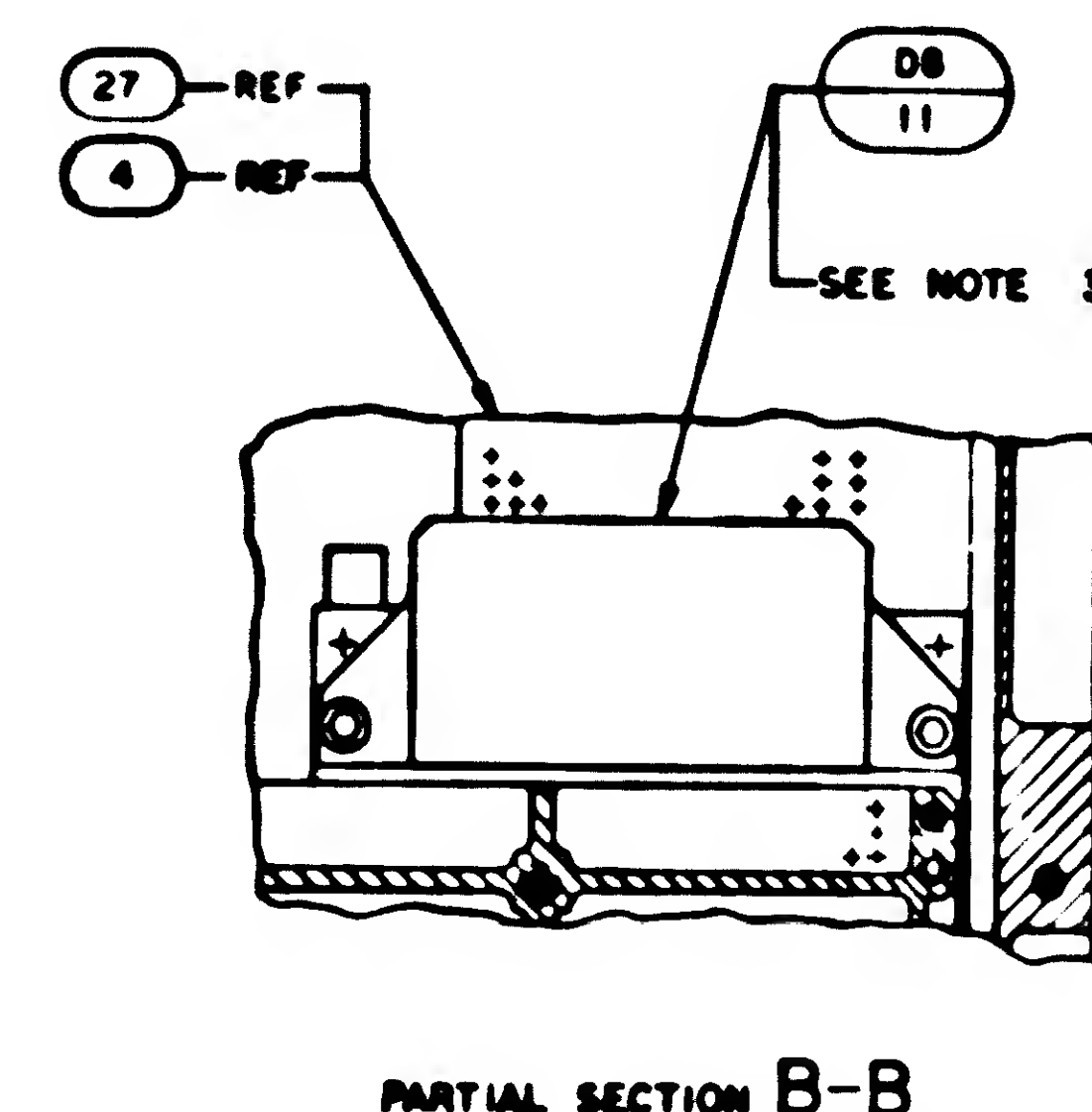
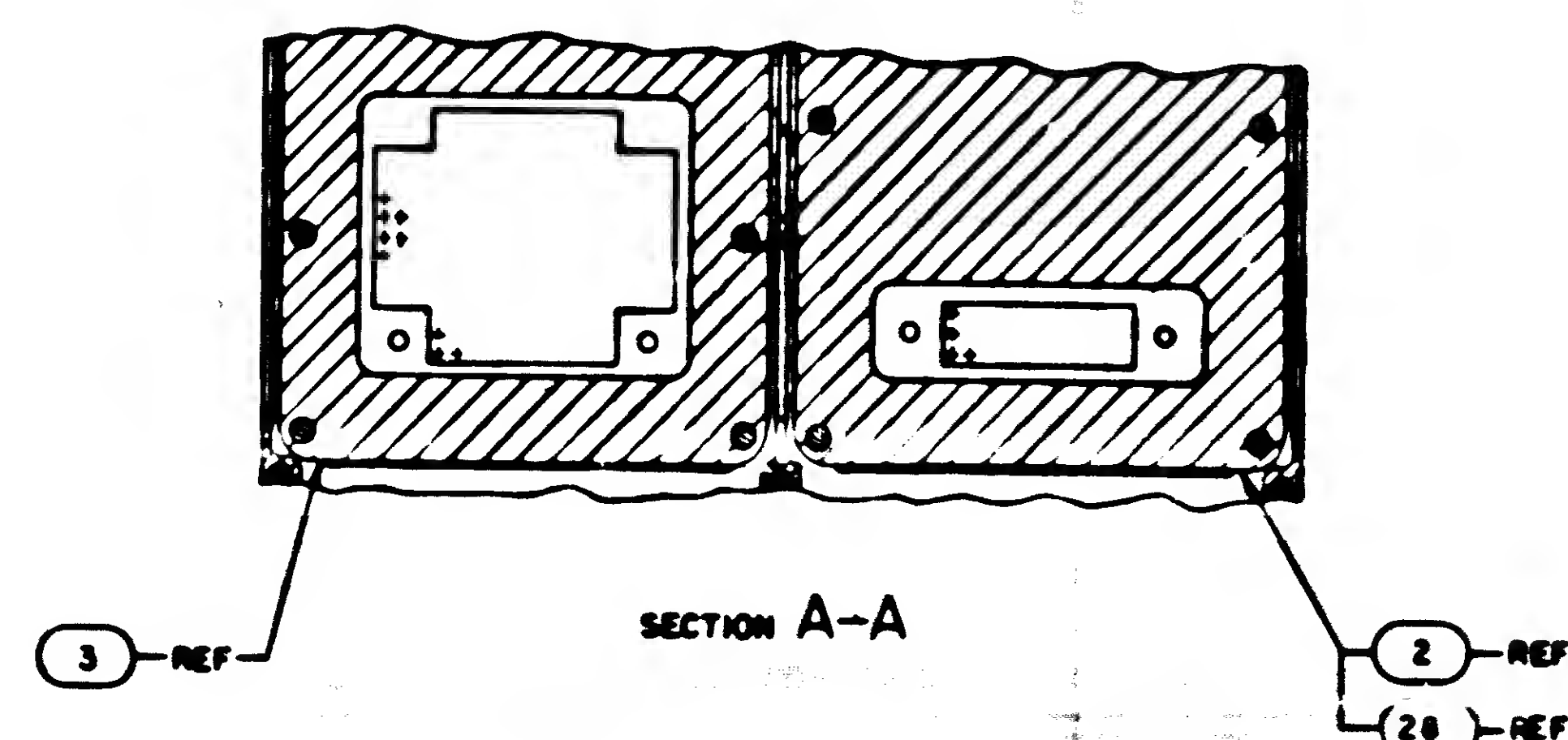
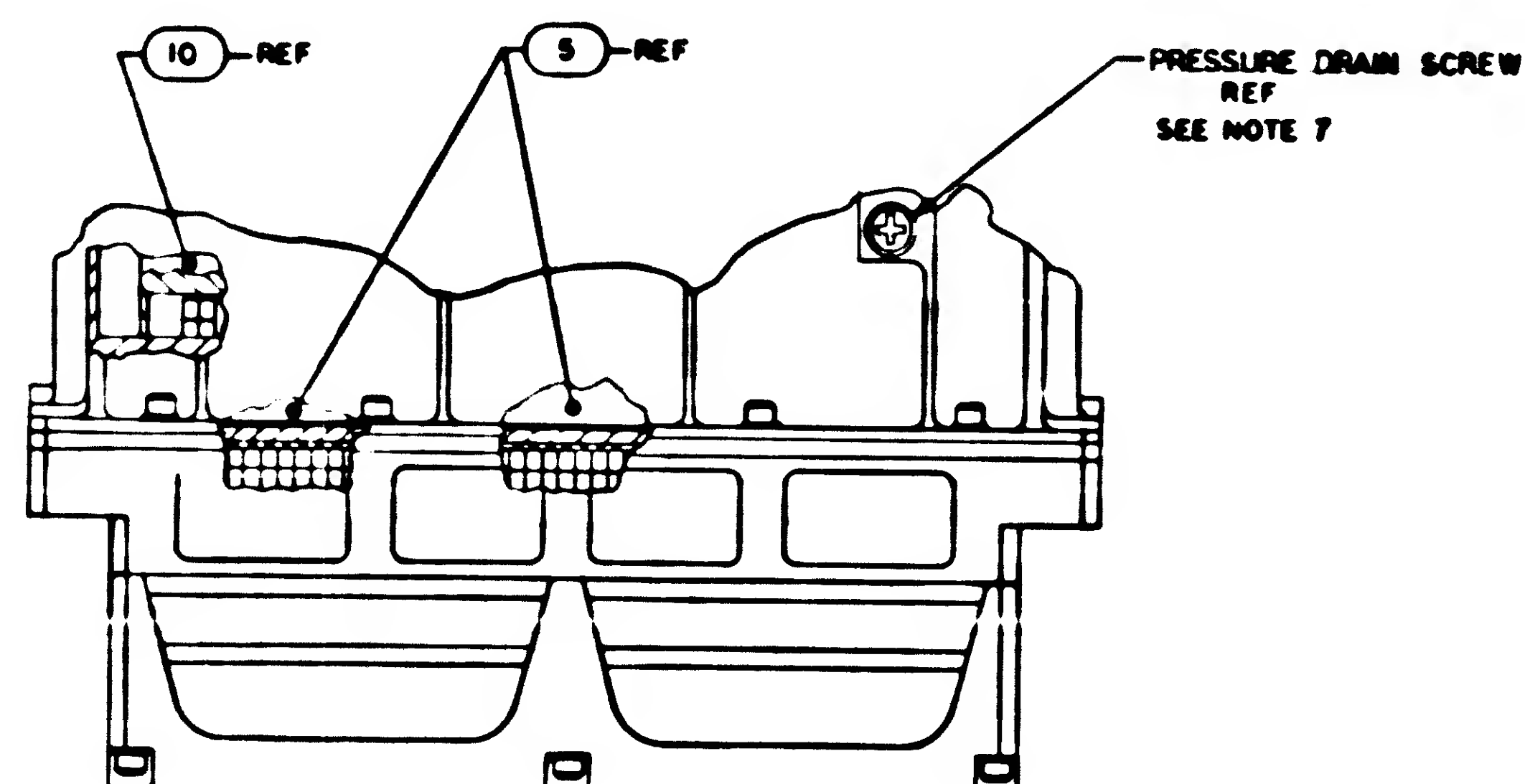


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MARK ~~AGE~~ ^{DATE} OF ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO. AND CONTRACT NO. MARKING TO BE PER NID002019 AND SERIALIZE PER NID002023
 3. MOUNTING TORQUE FOR FIND NO.19 AND JACK SCREWS OF FIND NO.11 TO BE 8.5-9.5 INCH POUNDS
 4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO.5,9 & 10 TO BE 15-19 INCH POUNDS
 5. APPLY SEALING COMPOUND MIL-S-22473 GRADE HV10 TO FIND NO.17
 6. FIND NO.2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO.4 USING FIND NO.19. BEFORE INSTALLING FIND NO.12, ASSEMBLE IN AN ENVIRONMENT HAVING A TEMPERATURE OF 72°F ± 5°F AND A RELATIVE HUMIDITY OF 50% OR LESS
 7. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM
 8. 4.3% AR TO 105/110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
 9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF S200359.4
 10. APPLY FIND NO.14 TO INTERFACE SURFACES OF THE FOLLOWING FIND NO.'S: 4.2, 4.3, 5.9 AND 5.10. DO NOT APPLY FIND NO.14 TO BONDED RUBBER SURFACES, TAPPED HOLES, OR MOUNTING HARDWARE. NO.14 DENOTES AS REQUIRED
 11. MOUNTING TORQUE FOR FIND NO.15,8 AND 12 TO BE 8-9 INCH POUNDS
 12. MOUNTING TORQUE FOR FIND NO.13 TO BE 3.3-4.5 INCH POUNDS
 13. FIND NO.2 TO BE EITHER 1006387-002 OR 1006387-003

- REF. DWGS
- | | |
|--------------------------------------|------------|
| 1. UNIVERSAL DSKY SHIPPING CONTAINER | 1006422 |
| 2. DSKY CONNECTOR COVER | 1006425-14 |
| 3. UNIVERSAL DSKY HANDLING FIXTURE | 2014013 |

	2003956	OUTLINE DRAWING	REF
X	2003957	SIGNAL PIN ASSIGNMENT	REF
X	2003954	INTERCONNECTING DIAGRAM	REF
	20039-8	SIGNAL FLOW DIAGRAM	REF
13	NAS620C4	WASHER, FLAT	25
I	2004958	BACKET, MODULE	24
I	2004959	BACKET, MODULE	24
46	NAS620C6	WASHER, FLAT	23
12	1004546-4	WASHER, FLAT	20
6	MSI6633-4014	RING, RETAINING	21
6	2004932-001	SCREW, JACKING	19
1	1004189-59	SCREW, HEX SOCKET HEAD	18
4	4X35216-6	SCREW PAN HEAD TYPE ROSS RECESSED	17
32	MSI66995-18	SCREW, HEX SOCKET HEAD	17
I	10042460-20	NAMERPLATE	15
AR	1006879	SILICONE COMPOUND	14
13	MSI66935-10	SCREW, HEX SOCKET HEAD	13
6	MSI66935-20	SCREW, HEX, SOCKET HEAD	12
I	2003909-031	KEYBOARD MODULE ASSY D8	11
I	2003901-3	PUMP SUPPLY TEST MODULE D7	10
6	2003952-031	INDICATOR DRIVER MODULE DI-D6	10
I	1006349	GASKET, BONDED, RUBBER	9
I	1006350	GASKET, BONDED, RUBBER	7
I	2004900	COVER, REAR	6
I	2003--5-011	MAIN HOUSING ASSY	5
I	2003949-021	FRONT HOUSING ASSY	4
I	1006315-001	INDICATOR, DIGITAL	3
I	SEE NOTE 13	INDICATOR, ALARM	2
I	2004929-021	COVER, FRONT	2
DTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR IDENTIFICATION	FREQ. NO.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS ARE: FRACTIONS DECIMALS ANGLES		INSTRUMENTATION LAB CHECKED <u> </u> APPROVAL <u> </u> APPROVAL <u> </u>		MAPED SPACECRAFT CENTER HOUSTON TEXAS	
		DO NOT SCALE THIS DRAWING MATERIAL		CHECKED <u> </u> APPROVAL <u> </u> APPROVAL <u> </u>		AGC DSKY ASSEMBLY	
		HEAT TREATMENT		HABA APPROVAL <u> </u> HABA APPROVAL <u> </u>		CODE IDENT NO 80230	
HEAT ADVY		USED ON		HABA DRAWING NO 2003994		SHEET 1 OF 1	
APPLICATION		FOLD FINISH		SCALE 1/1 J			



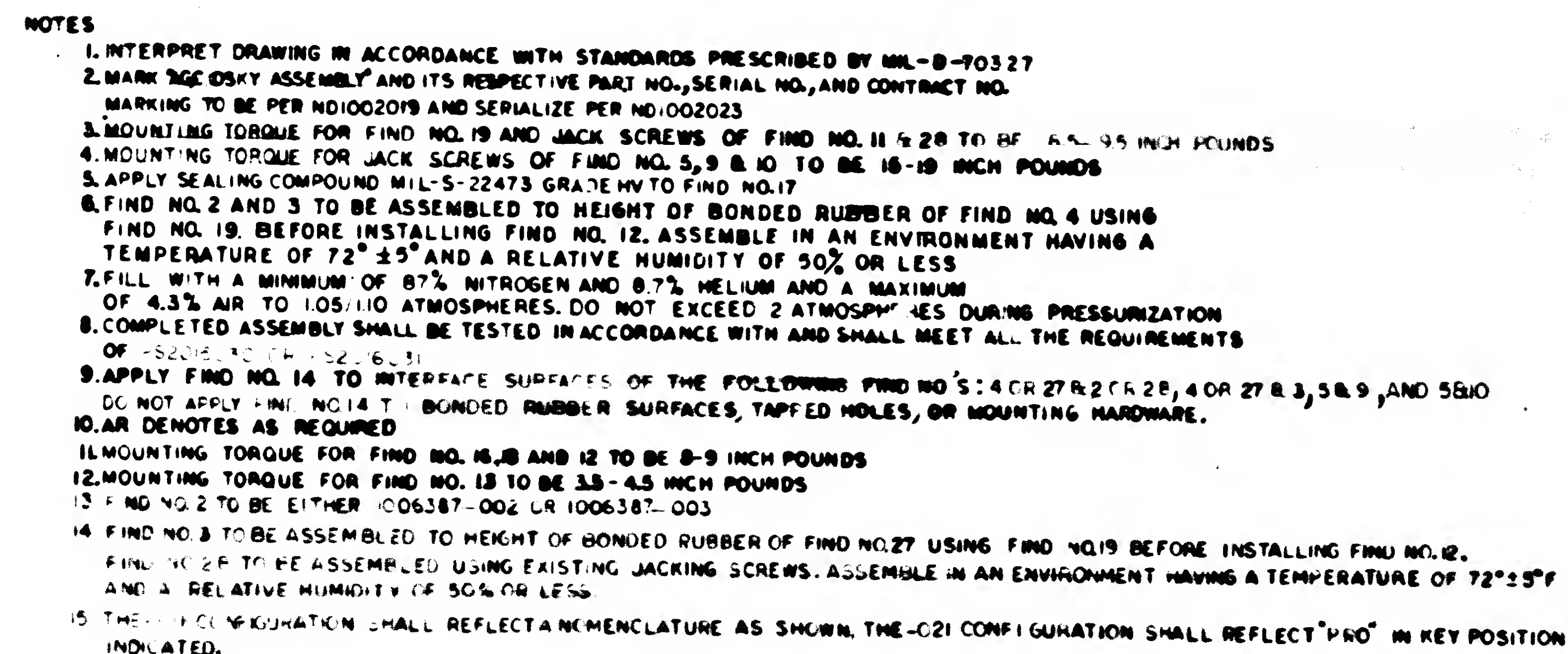
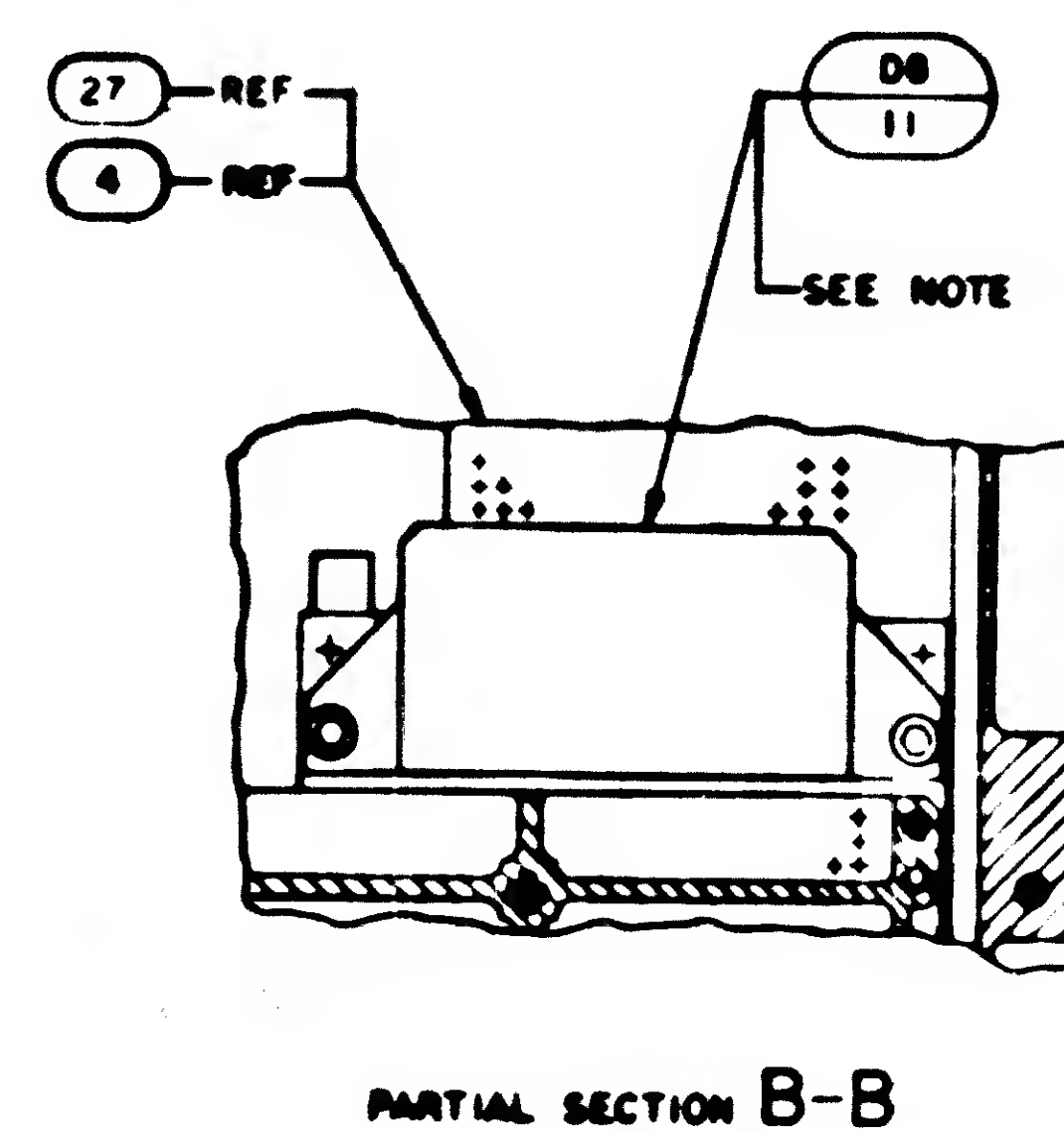
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MARK JACKSCREW ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO., AND CONTRACT NO. MARKING TO BE PER ND0002019 AND SERIALIZE PER ND0002023
 3. MOUNTING TORQUE FOR FIND NO. 19 AND JACK SCREWS OF FIND NO. 11 & 20 TO BE 6.5-9.5 INCH POUNDS
 4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 9 & 10 TO BE 18-10 INCH POUNDS
 5. APPLY SEALING COMPOUND MIL-S-22473 GRADE HY TO FIND NO. 17
 6. FIND NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4 USING FIND NO. 19. BEFORE INSTALLING FIND NO. 12, ASSEMBLY IN AN ENVIRONMENT HAVING A TEMPERATURE OF $72^{\circ}\pm 5^{\circ}$ AND A RELATIVE HUMIDITY OF 50% OR LESS
 7. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 105.110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
 8. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2003934
 9. APPLY FIND NO. 14 TO INTERFACE SURFACES OF THE FOLLOWING FIND NO'S: 4 OR 27 & 20, 22, 4 OR 27 & 3, 5 & 9, AND 5B10 DO NOT APPLY FIND NO. 13 TO BONDED RUBBER SURFACES, TAPPED HOLES, OR MOUNTING HARDWARE.
 10. AR DENOTES AS REQUIRED
 11. MOUNTING TORQUE FOR FIND NO. 14, 10 AND 12 TO BE 8-9 INCH POUNDS
 12. MOUNTING TORQUE FOR FIND NO. 13 TO BE 3.5-4.5 INCH POUNDS
 13. FIND NO. 2 TO BE EITHER 0006387-002 OR 1006387-003
 14. FIND NO. 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 27 USING FIND NO. 19 BEFORE INSTALLING FIND NO. 12.
 15. FIND NO. 27 TO BE ASSEMBLED USING EXISTING JACKSCREW SCREWS. ASSEMBLY IN AN ENVIRONMENT HAVING A TEMPERATURE OF $72^{\circ}\pm 5^{\circ}$ AND A RELATIVE HUMIDITY OF 50% OR LESS.
 16. THE PART CONFIGURATION SHALL REFLECT A NOMENCLATURE AS SHOWN. THE CASE CONFIGURATION SHALL REFLECT "P" IN KEY POSITION INDICATED.

REF. DWG#		
1. UNIVERSAL DSKY SHIPPING CONTAINER		1006422
2. DSKY CONNECTOR COVER		1006425-14
3. UNIVERSAL DSKY HANDLING FIXTURE		2014013

-C21	1 THRU 5,7 THRU 12,14 & 15
-011	1 THRU 13 & 15
DASH NO.	APPLICABLE NOTES
NOTE APPLICATION	

QTY	QTY REQD	PART OR IDENTIFYING NO	DESCRIPTION OR IDENTIFICATION	QTY REQD
		2003956	OUTLINE DRAWING	REF
		200937	SIGNAL PIN ASSIGNMENT	REF
		200934	INTERCONNECTING DIAGRAM	REF
		2009918	SIGNAL FLOW DIAGRAM	REF
		2003991-011	INDICATOR ALARM ALUMEN ASSY	27
		2003991-41	FLUORESCENT INDICATOR	27
		2004750	WASHER, FLAT	26
13	13	MS162024	WASHER, FLAT	26
		2004958	BRACKET, MODULE	24
		2004959	BRACKET, MODULE	24
42	46	MS162026	WASHER, FLAT	22
12	12	1004546-4	WASHER, FLAT	21
4	6	MS16633-3014	RING, RETAINING	20
4	6	2004982-001	SCREW, JACKING	19
2	8	1001499-59	SCREW, HEX SOCKET HEAD	18
		MS15352	SCREW, PAN HEAD, CROSS RECESSED	19
32	32	MS15995-10	SCREW, HEX SOCKET HEAD	15
		1004260-20	NAMES PLATE	15
AR	AR	1006879	SILICONE COMPOUND	14
13	13	MS16295-10	SCREW, HEX SOCKET HEAD	13
2	6	MS16295-20	SCREW, HEX SOCKET HEAD	12
		2003909-031	KEYBOARD MODULE ASSY DB	11
		2003901-031	PSU SUPPLY	10
6	6	2003982-031	REGULATOR DRIVER MODULE DI-D6	9
		1006349	GASKET, BONDED, RUBBER	8
		1006350	GASKET, BONDED, RUBBER	7
		2004900	COVER, REAR	6
		2003685-011	MAIN HOUSING ASSY	5
		2003949-02	FRONT HOUSING ASSY	4
		1006315-001	INDICATOR, DIGITAL	3
		SEE NOTE 13	INDICATOR, ALARM	2
		2004929-021	COVER, FRONT	1

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (CONVERT TO FRACTIONS DECIMALS ANGLES)		INSTRUMENTATION LAB CHAMBER DRAWN DATE		MANPED SPACECRAFT CENTER HEBUSTON TEXAS	
		DO NOT SCALE THIS DRAWING MATERIAL		DRAWN BY <u> </u> DATE <u> </u> CHECKED <u> </u> APPROVAL <u> </u>		AGC DSKY ASSEMBLY	
		HEAT TREATMENT		MAGN APPROVAL <u> </u>			
NEXT ASSY		USED ON		SCALE <u> </u> 1		CODE IDENT NO 802303	SIZE J
APPLICATION		FINAL REVISION		GSE APPROVAL <u> </u>		NO. DRAWING MO 2003994	



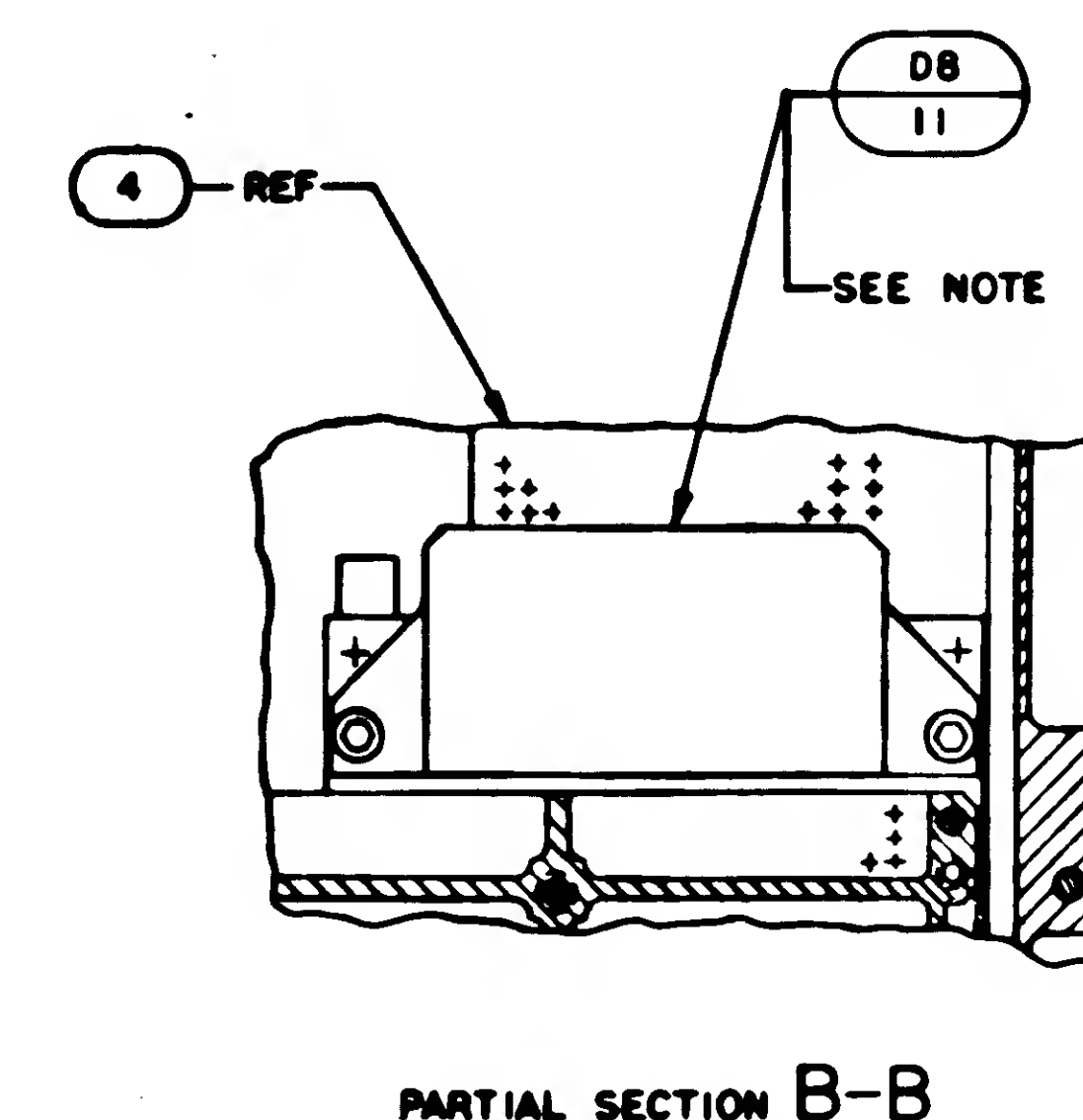
REF. DWGS	
1. UNIVERSAL DSKY SHIPPING CONTAINER	1006422
2. DSKY CONNECTOR COVER	1006425-14
3. UNIVERSAL DSKY HANDLING FIXTURE	2014013

-021	1 THRU 5, 7 THRU 12, 14 & 15
-011	1 THRU 13 & 15
DASH NO.	APPLICABLE NOTES
NOTE APPLICATION	

		2003958	OU'LINE DRAWING	REF
		2003957	SIGNAL DIAG ASSIGNMENT	REF
		2003954	INTERCONNECTING DIAGRAM	REF
		2003910	SIGNAL FLOW DIAGRAM	REF
		- 2	INDICATOR ALARM COVER ASSY	27
		- 2	INDICATOR ASSY	27
		2	4-73	24
13	1	NA5620C4	WASHER, FLAT	25
	1	2004958	BRACKET, MODULE	24
	1	2004959	BRACKET, MODULE	23
42	46	NA5620C6	WASHER, FLAT	22
	12	1004546-4	WASHER, FLAT	21
	4	MS56633-4014	RING, RETAINING	20
	4	20049492-001	SCREW, JACKING	19
	4	1001489-50	SCREW HEX SOCKET HEAD	17
	4	MS5352-16	SCREW PAN HEAD, CROSS RECESSED	19
32	32	MS56995-10	SCREW HEX SOCKET HEAD	16
	1	1004260-20	NAMEPLATE	15
AR	AR	1006879	SILICONE COMPOUND	14
	3	MS56995-10	SCREW HEX SOCKET HEAD	13
	2	MS56995-20	SCREW HEX SOCKET HEAD	12
	1	2003909-031	WARRANTY CARD	11
	1	2003901-031	POWER SUPPLY ASSY MODULE D7	10
	6	2003952-031	INDICATOR DRIVER MODULE DI-D6	9
	1	1006349	GASKET, BONDED, RUBBER	8
	1	1006350	GASKET, BONDED, RUBBER	7
	1	2004900	COVER, REAR	6
	1	2003668-011	MAIN HOUSING ASSY	5
	1	2003949-031	MAIN HOUSING ASSY	4
	1	1006315-001	INDICATOR, DIGITAL	3
	1	SEE NOTE 13	INDICATOR ALARM	2
	- 1	2004929-021	COVER, FRONT	

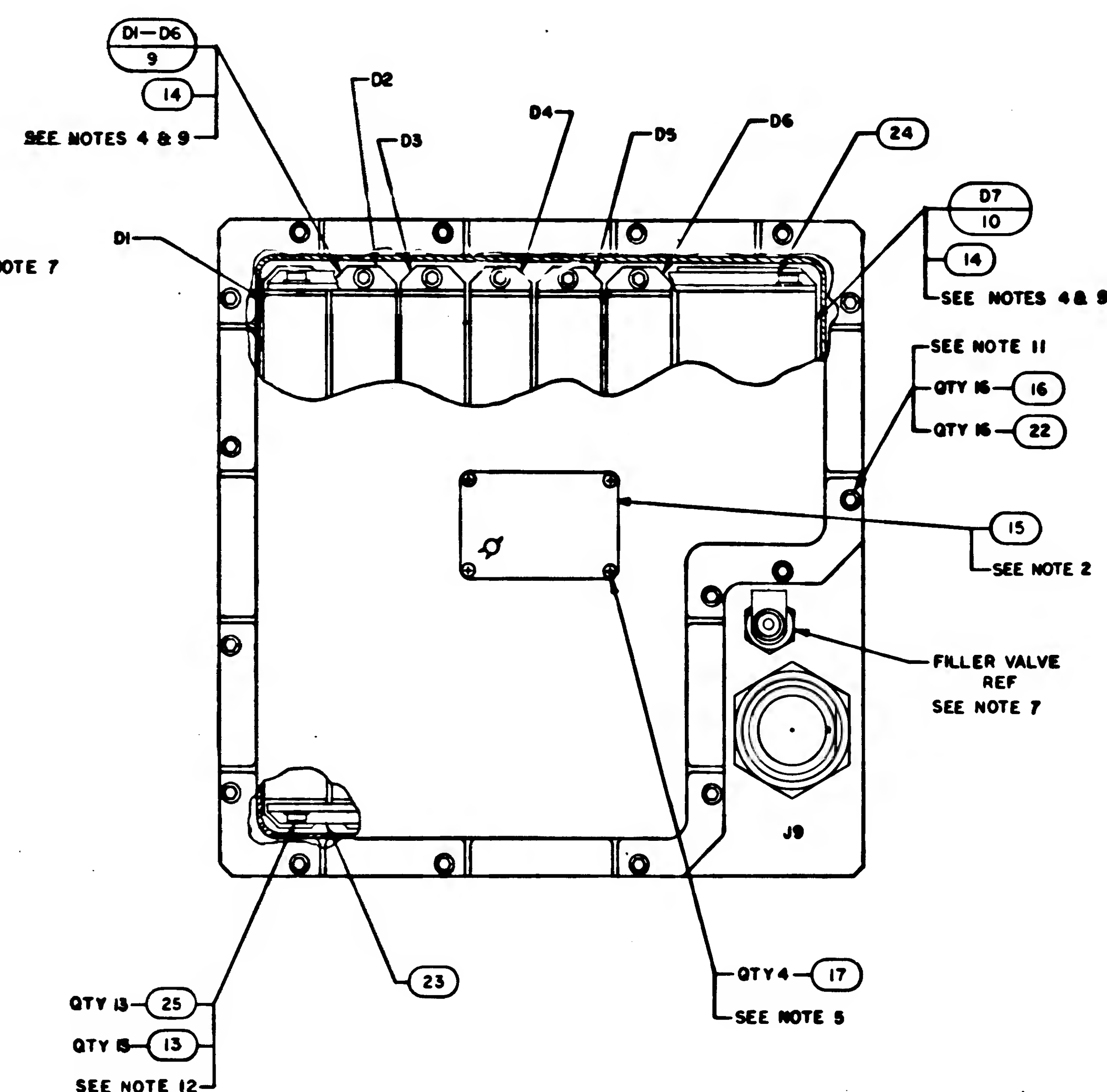
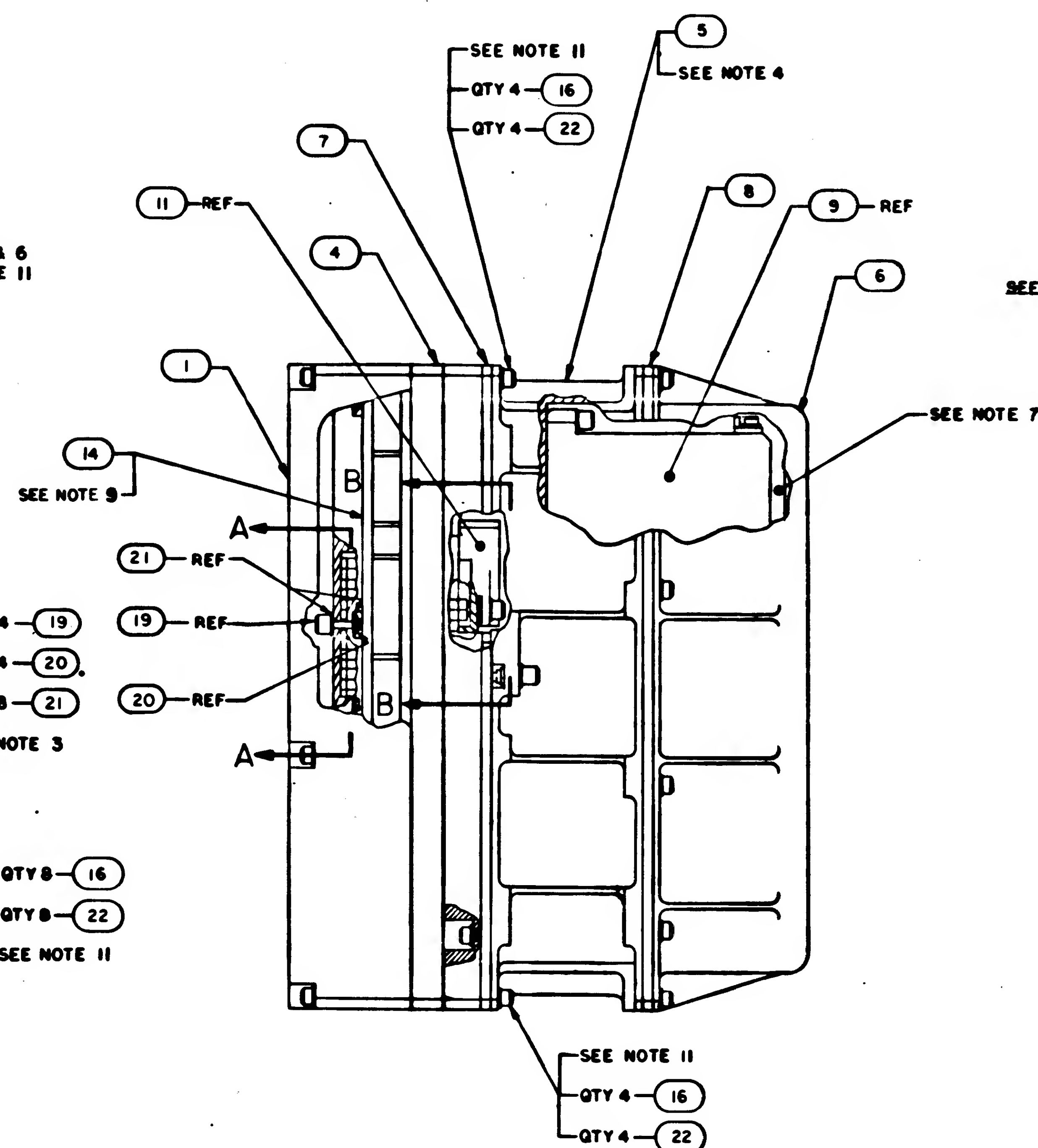
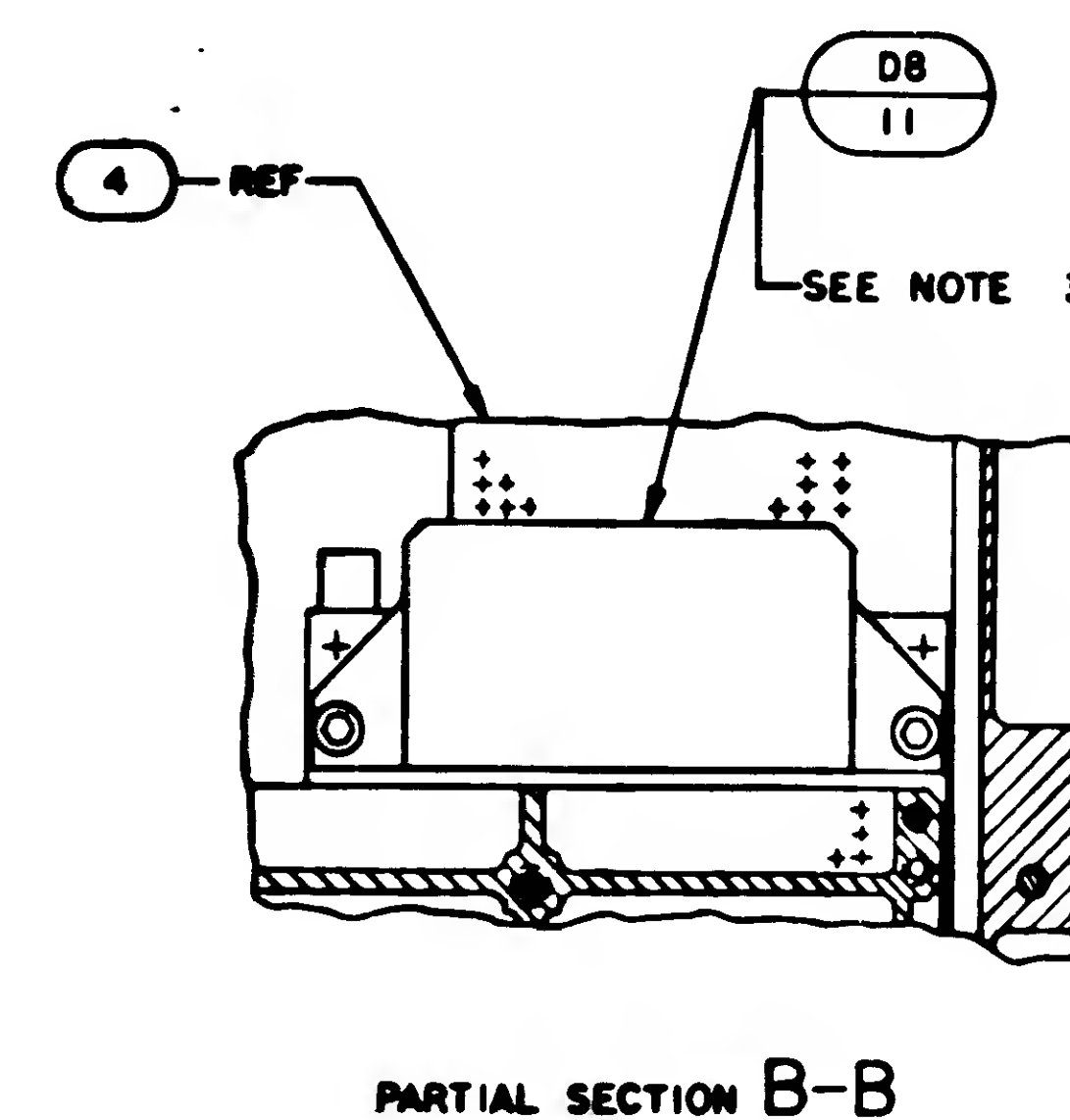
		LIST OF MATERIALS	
ARE THERE OTHERS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED FINISHES SERIALS AMOUNTS DO NOT SCALE THIS DRAWING MATERIAL		MANNED SPACECRAFT CENTER HOL-770 "T-145" AGC DSKY ASSEMBLY	
PART RELATIONS HEAT RESIST USED ON SEAL TYPES		DRAWN BY <u> </u> CHECKED BY <u> </u> APPROVED BY <u> </u> SPECIAL APPROVAL <u> </u> REGR APPROVAL <u> </u> SEC APPROVAL <u> </u>	
APPLICATOR		CAGE IDENT NO.	QTY
		80230	1
		SCALE: 1/1	DWYNT 1 67 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TYPICALLY 30		MATERIAL MULTIPLICATION 1.40 CORROSION 1.00		LIST OF MATERIALS	
FRACTIONS DECIMALS ANGLES		DRAWN BY <u>W. J. H. H.</u>		MANAGED SPACECRAFT CENTER HOUSTON TEXAS	
DO NOT SCALE THIS DRAWING		CHECKED BY <u>W. J. H. H.</u>		AGC DSKY ASSEMBLY	
APPROVAL <u>W. J. H. H.</u>		APPROVAL <u>W. J. H. H.</u>			
HEAT TREATMENT		MATERIAL APPROVAL <u>W. J. H. H.</u>		CAGE CODE NO. SEE 80230 J	
NEXT REV. USED ON		SEE APPROVAL <u>W. J. H. H.</u>		MATERIAL APPROVAL NO. 2003994	
APPLICATION		SCALE 1/1		SHEET 1 OF 1	



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE & DESCRIPTION
-------------	----------------------------	-------------------------------

<table border="1"><tr><td>UNIT</td><td>INSTRUMENTATION LAB</td></tr><tr><td colspan="2">CROSS-SECTION READS</td></tr><tr><td>DATE</td><td>TIME</td></tr><tr><td>DRY RUN</td><td>DATE 2/20/68</td></tr><tr><td>CHECKED</td><td>2/20/68</td></tr><tr><td>APPROVAL</td><td></td></tr><tr><td>APPROVAL</td><td></td></tr></table>		UNIT	INSTRUMENTATION LAB	CROSS-SECTION READS		DATE	TIME	DRY RUN	DATE 2/20/68	CHECKED	2/20/68	APPROVAL		APPROVAL		LIST OF MATERIALS	
		UNIT	INSTRUMENTATION LAB														
CROSS-SECTION READS																	
DATE	TIME																
DRY RUN	DATE 2/20/68																
CHECKED	2/20/68																
APPROVAL																	
APPROVAL																	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ° ' "		MANNED SPACECRAFT CENTER HISTORIC RECORDS															
DO NOT SCALE THIS DRAWING MATERIAL		AGC DSKY ASSEMBLY															
MEAT ASSEMBLY PART NUMBER		CODE IDENT NO	SIZE														
MEAT BODY USED ON		80230	J														
APPLICATION		SCALE 1/1	WT														
		QTY SHOWN NO 2003994															
		SHEET 1															



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MAIN: GIGOSKY ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO., AND CONTRACT NO. MAKING TO BE PER NID002019 AND SERIALIZE PER NID002023
 3. MOUNTING TORQUE FOR FIND NO. 19 AND JACK SCREWS OF FIND NO. 11 TO BE 8.5-9.5 INCH POUNDS
 4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 9, 8, 10 TO BE 15-19 INCH POUNDS
 5. APPLY SEALING COMPOUND MIL-S-22473 GRADE WTV TO FIND NO. 17
 6. FIND NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4 USING FIND NO. 19. BEFORE INSTALLING FIND NO. 12, ASSEMBLE IN AN ENVIRONMENT HAVING A TEMPERATURE OF $72^{\circ} \pm 5^{\circ}$ AND A RELATIVE HUMIDITY OF 50% OR LESS
 7. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 1.05/1.01 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
 8. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS200394
 9. APPLY FIND NO. 14 TO INTERFACE SURFACES OF THE FOLLOWING FIND NOS: 4, 12, 4, 13, 5, 8, 9 AND 5, 10. DO NOT APPLY FIND NO. 14 TO BONDED RUBBER SURFACES
 10. AR DENOTES AS REQUIRED
 11. MOUNTING TORQUE FOR FIND NO. 14, 8, AND 12 TO BE 8-9 INCH POUNDS
 12. MOUNTING TORQUE FOR FIND NO. 19, 18 TO BE 3.5-4.5 INCH POUNDS

REF. DWG'S		
1	UNIVERSAL DSKY SHIPPING CONTAINER	1006422
2	DSKY CONNECTOR COVER	1006425-14
3	UNIVERSAL DSKY HANDLING FIXTURE	2014013

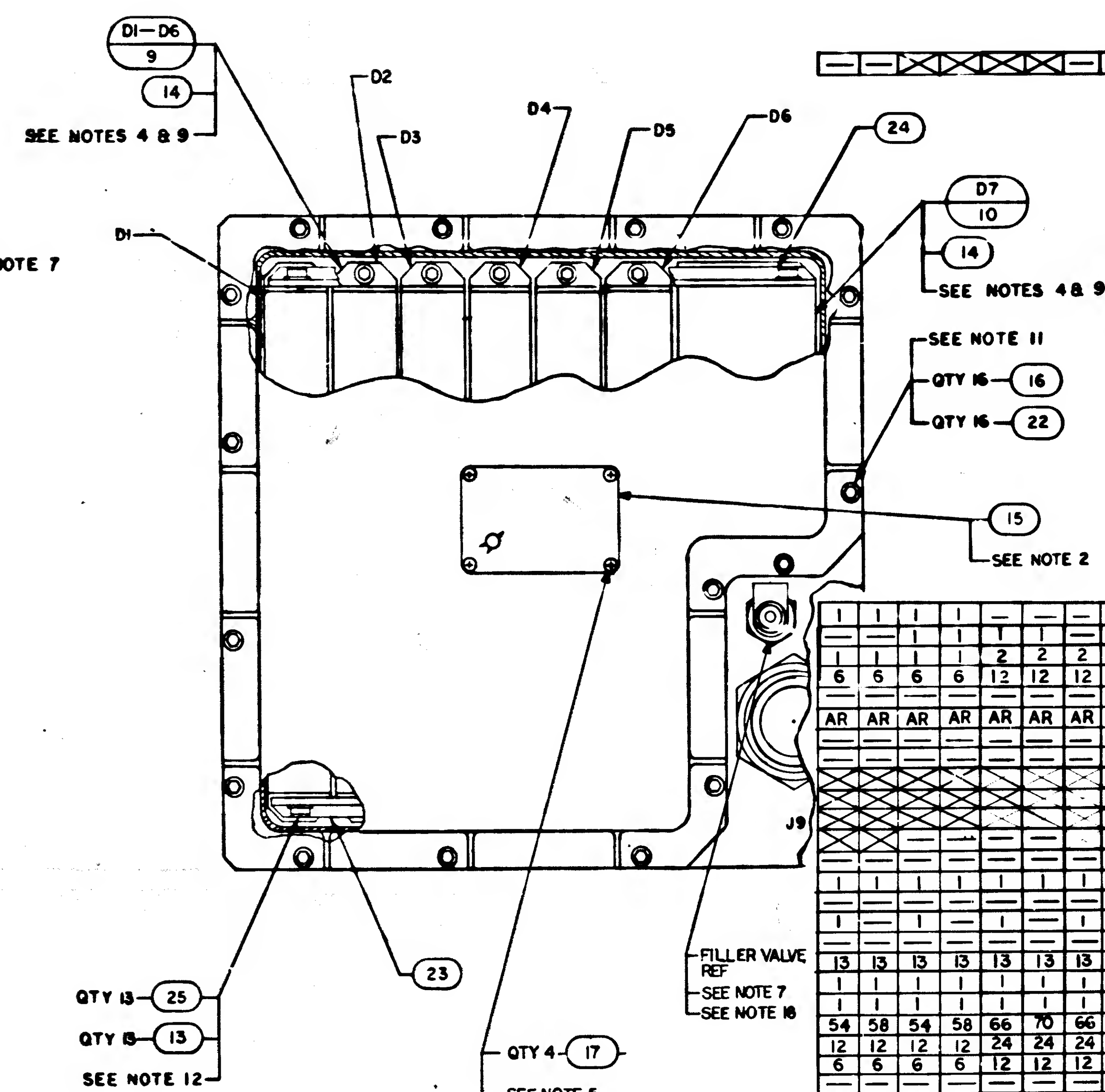
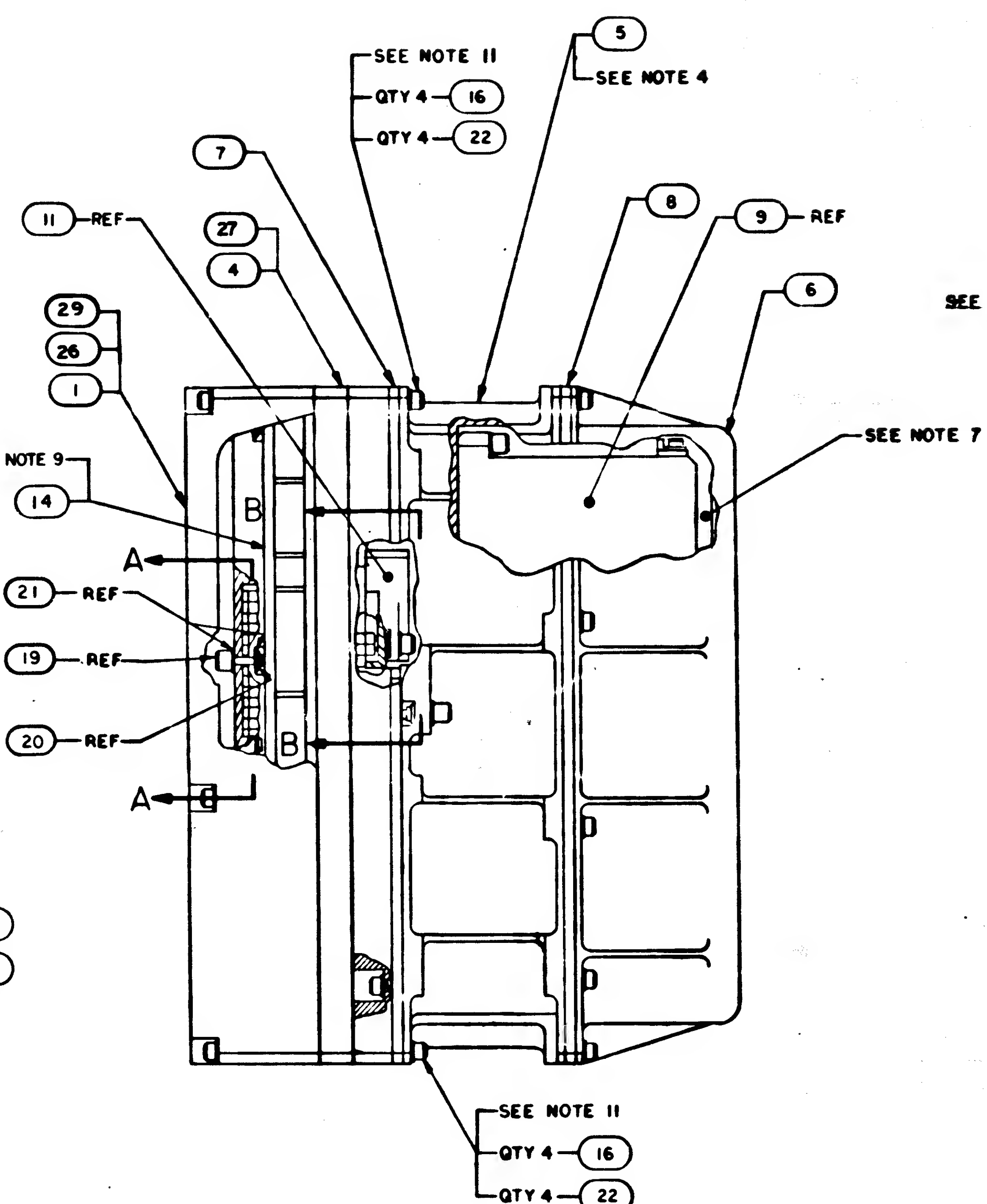
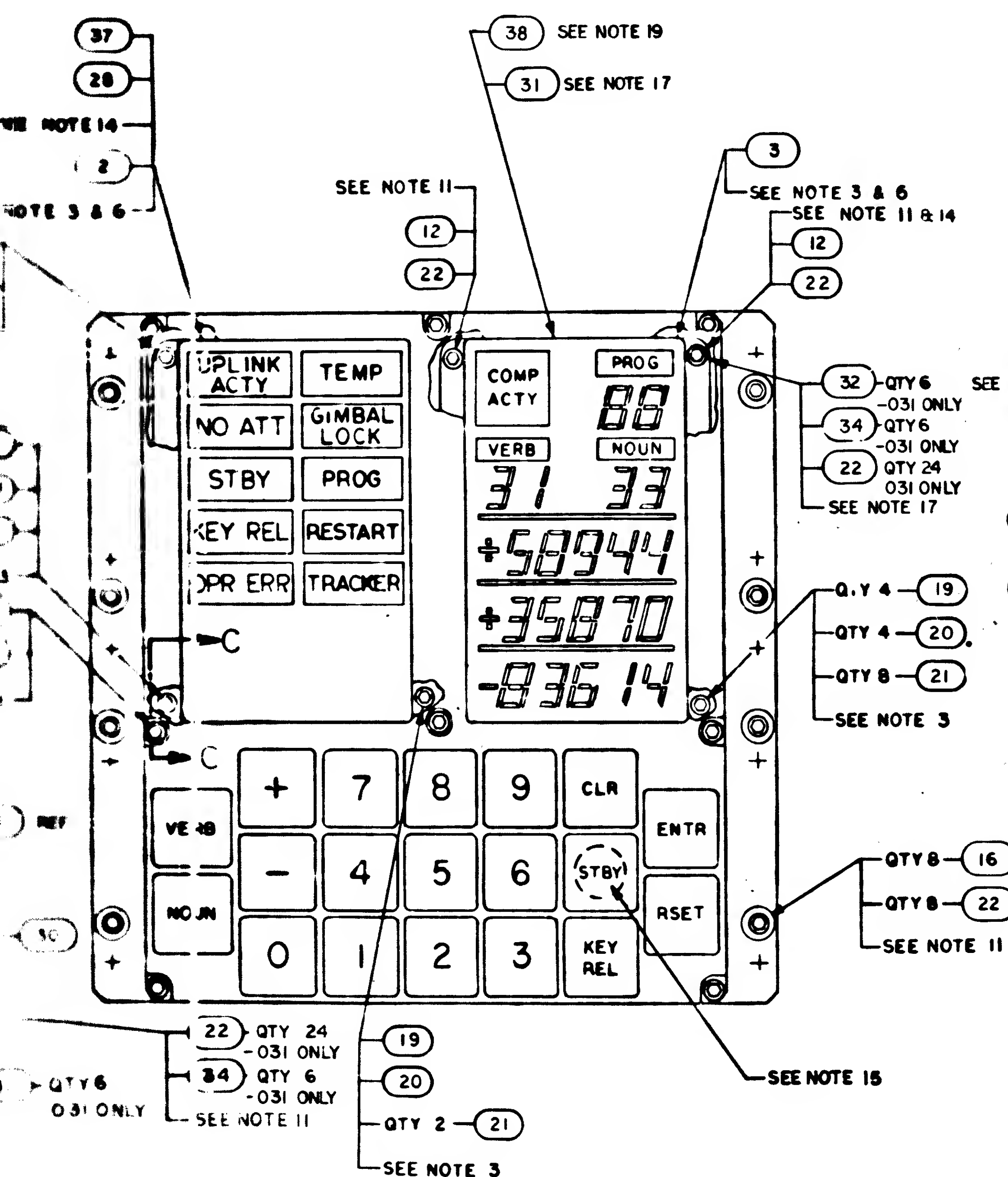
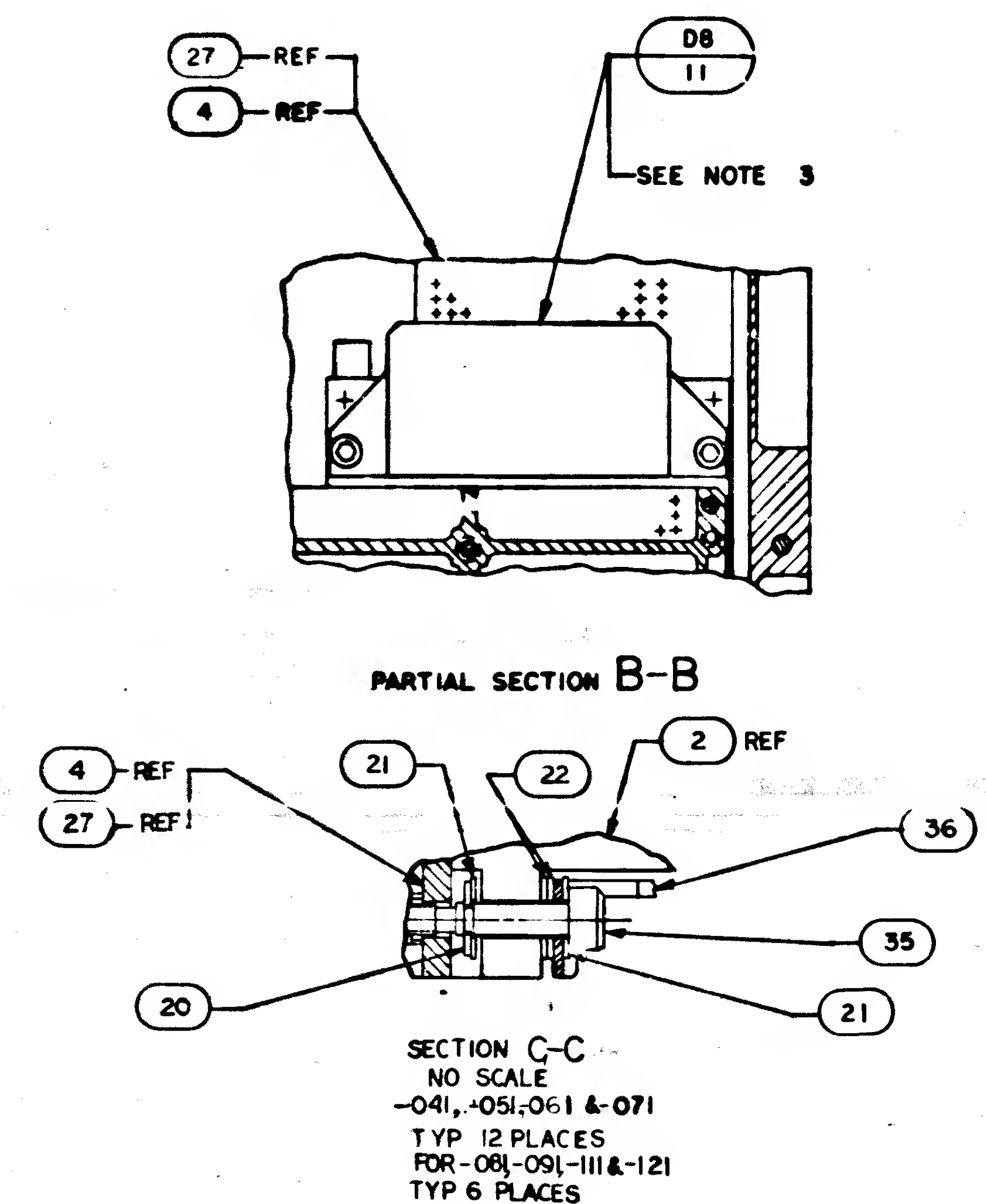
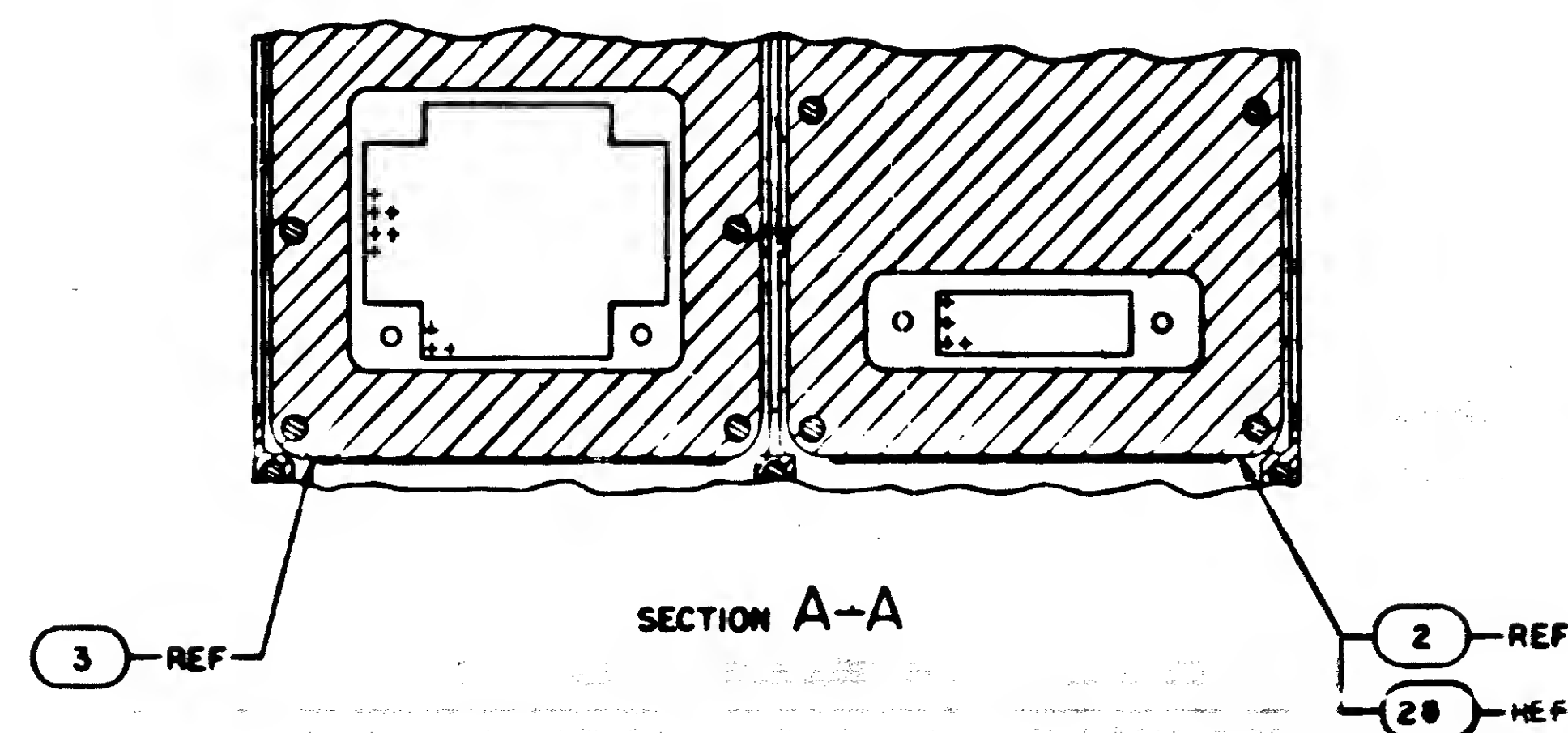
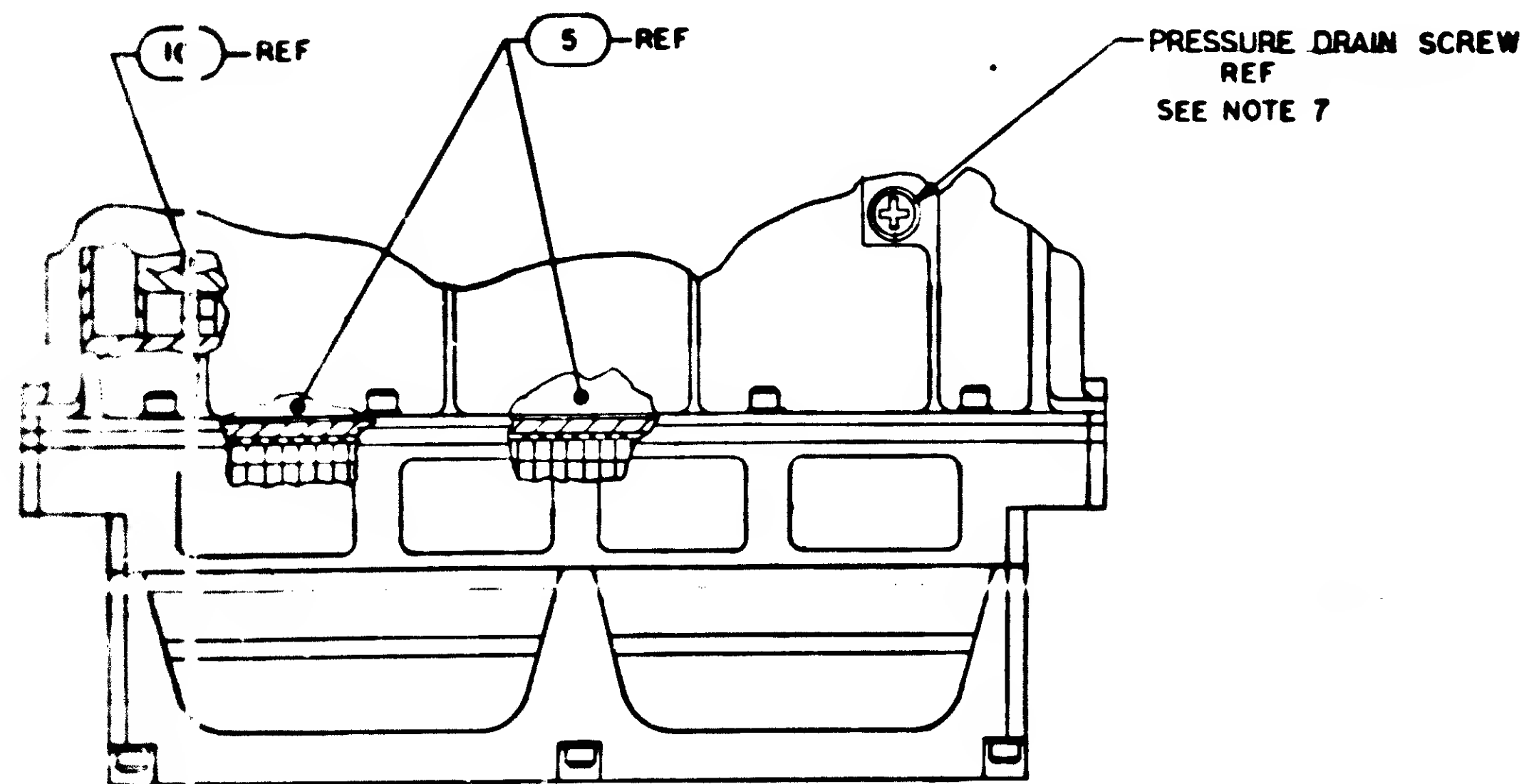
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13	NA5620C4	WASHER, FLAT	25
1	2004958	BRACKET, MODULE	24
1	2004959	BRACKET, MODULE	24
46	NA5620C6	WASHER, FLAT	22
12	1004546-4	WASHER, FLAT	21
6	MS16633-4014	RING, RETAINING	20
6	2004932-001	SCREW, JACKING	19
8	1001489-50	SCREW, HEX SOCKET HEAD	18
1	MS163216	SCREW, PAN HEAD, CROSS RECESSED	17
32	MS1695-18	SCREW, HEX SOCKET HEAD	16
1	1004260-20	NAMEPLATE	15
AR	1006879	SILICONE COMPOUND	14
13	MS16935-10	SCREW, HEX SOCKET HEAD	13
6	MS16993-01	SCREW, HEX SOCKET HEAD	12
1	2003909-031	KEYBOARD MODULE ASSY D8	11
1	2003901-031	POWER SUPPLY ASSY MODULE D7	10
1	2003953-031	POWER SUPPLY DRIVER MODULE DI-D6	9
4	1006349	GASKET, BONDED, RUBBER	8
1	1006350	GASKET, BONDED, RUBBER	7
1	2004900	COVER, REAR	6
1	2003635-01	MAIN HOUSING ASSY	5
1	2003949-021	FRONT HOUSING ASSY	4
1	1006315-001	INDICATOR, DIGITAL	3
1	1006387-002	INDICATOR, ALARM	2
1	2004923-021	COVER, FRONT	1
QTY REQD	UNIT OR IDENTIFYING NO	DESCRIPTION	REQD NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TYPICAL FRANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		CITY INSTRUMENTATION LAB CHANDLER STATION DRAW NO. 00000001		LIST OF MATERIALS MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS	
		DRAWN <i>E. J. Jones</i> DATE <i>5/2/64</i> CHECKED <i>J. E. Jones</i> DATE <i>5/2/64</i> APPROVAL <i>E. J. Jones</i> APPROVAL <i>E. J. Jones</i>		AGC DSKY ASSEMBLY	
HEAT TREATMENT		NASA APPROVAL <i>[Signature]</i> DATE APPROVAL <i>5/2/64</i>		CODE IDENT NO 80230	SIZE J
NEXT ASSY		FINAL FINISH		NASA DRAWING NO 2003994	SCALE 1/1 WT INSET 1 OF 1
APPLICATION					

2003994 J

REV 11-10-00			
SPR	MSG CTR	DATE	APPROVAL
A	INITIAL	05/06/01	10/01
B	CHANGED PER TDRR 33445 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
C	REVISED PER TDRR 35065 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
D	REVISED PER TDRR 36255 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
E	REVISED PER TDRR 38450 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
F	REVISED PER TDRR 36050 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
G	REVISED PER TDRR 36050 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
H	REVISED PER TDRR 37180 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01
J	REVISED PER TDRR 37318 DR <i>10/01</i> CHK <i>10/01</i>	10/01	10/01



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		CITY INSTRUMENTATION LAB HOUSTON TEXAS DESIGNED BY DRAWN BY <i>John</i> DATE <i>10/1/68</i> CHECKED BY <i>John</i> APPROVAL <i>John</i> APPROVAL <i>John</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
FRACTIONS DECIMALS ANGLES		DO NOT SCALE THIS DRAWING MATERIAL		AGC DSKY ASSEMBLY	
HEAT TREATMENT		NASA APPROVAL <i>John</i>		CODE IDENT NO	NASA DRAWING NO
NEXT ASBY USED ON		POOL FINISH		80230	2003994
		APPROVAL <i>John</i> SCALE 1/1		W	SHEET 1 OF 1

PART DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
NOM ONLY ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO., AND CONTRACT NO.
NO. TO BE PER MD012019 AND SERIALIZE PER MD1002023
SEALING TORQUE FOR JACK SCREWS OF FIND NO. 11, 12, 28 TO BE .85-.95 INCH POUNDS
TORQUE FOR JACK SCREWS OF FIND NO. 5, 9, 8, 10 TO BE 15-19 INCH POUNDS
SEALING TORQUE FOR JACK SCREWS OF FIND NO. 1068953 - 003 TO FIND NO. 17
NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4 USING
NO. 19 BEFORE INSTALLING FIND NO. 12. ASSEMBLE IN AN ENVIRONMENT HAVING A
TEMPERATURE OF 72° ± 5° AND A RELATIVE HUMIDITY OF 50% OR LESS
AIR TO MINIMUM OF 87% NITROGEN AND 87% HELIUM AND A MAXIMUM
PRESSURE OF 105.10 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
TESTED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH STANDARD MEET ALL THE REQUIREMENTS
FIND NO. 14 TO INTERFACE SURFACES OF THE FOLLOWING FIND NO. 5: 4OR 27 8 2R OR 26, 4 OR 27 8 3, 5 & 9, AND 5B10
TO BONDED RUBBER SURFACES, TAPPED HOLES, OR MOUNTING HARDWARE.
OFES AS REQUIRED
FIND NO. 16, 8, 12 AND 34 TO BE 8-9 INCH POUNDS
TORQUE FOR FIND NO. 18 TO BE 3.5-4.5 INCH POUNDS
TO BE EITHER 1006587-002 OR 1006587-003
TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 27 USING FIND NO. 19 BEFORE INSTALLING FIND NO. 12.
O 80 TO BE ASSMBLED USING EXISTING JACKING SCREWS ASSEMBLE IN AN ENVIRONMENT HAVING A TEMPERATURE OF 72° ± 5°F
RELATIVE HUMIDITY OF 50% OR LESS.
04A-008A-001-11 CONFIGURATION SHALL REFLECT A NOM AS SHOWN THE-021-031-051-071-091 & 121 CONFIGURATION SHALL
04A IN KEY POSITION INDEXED
FIND NO. 30 TO FIND NO. 34 USE FIND NO. 22 QTY 3 PER SCREW AS SHIMS, BETWEEN FIND NO. 30 AND FIND NO. 2 USE
FOR SCREW UNDER EACH SCR/W HEAD. USE FIND NO. 32 QTY 1 PER SCREW ON THE THREADED PORTION OF EACH SCREW TO ACT AS A
FRAME & LIGHT ON THE DSKY. CAUTION SHOULD BE EXERCISED PRIOR TO ASSEMBLY TO DSKY AS IT IS DIFFICULT TO R
WITHOUT JACKING HARDWARE.

REF DWGS	
1. UNIVERSAL DSKY SHIPPING CONTAINER	1006422
2. DSKY CONNECTOR COVER	1006425-14
3. UNIVERSAL DSKY HANDLING FIXTURE	2014013

NOTES: 17 ASSEMBLE FIND NO.31 TO FIND NO.3 USING FIND NO.34. USE FIND NO.22, QTY 3 PER SCREW AS SHIMS BETWEEN FIND NO.31 AND FIND NO.3. USE FIND NO.22, QTY 1 PER SCREW UNDER EACH SCREW HEAD, USE FIND NO.32 ON THE THREADED PORTION OF EACH SCREW TO ACT AS A RETAINING RING DURING ASSEMBLY OF FRAME & LIGHT INTO DSKY. CAUTION SHOULD BE EXERCISED PRIOR TO ASSEMBLY TO DSKY AS IT IS EXTREMELY DIFFICULT TO REMOVE FIND NO.33 AFTER ASSEMBLY WITHOUT JACKING HARDWARE.

18 PRIOR TO ASSEMBLY OF FIND NO.2 AND FIND NO.3 OR FIND NO.38 TO FIND NO.27 OR FIND NO.4 FILL FEMALE INSULATORS OF FIND NO.27 OR FIND NO.4 WITH FIND NO.33.

-071	1THRU 12,15,18
-061	1THRU 12,15,18
-051	1THRU 8,15,18
-041	1THRU 13,15,18
-031	1THRU 5,7,9,10,11,12,13,15,16,17,18
-021	1THRU 5,7 THRU 12,14 & 15
-011	1THRU 13 & 15
DASH NO. APPLICABLE NOTES	
NOTE APPLICATION	

—121	1 THRU 13, 15, 18, 19, 20
—111	1 THRU 13, 15, 18, 19, 20
—091	1 THRU 12, 15, 18, 19, 20
—081	1 THRU 12, 15, 18, 19, 20
DASH NO	APPLICABLE NOTES
	NOTE APPLICATION

19. TORQUE JACKING HARDWARE FOR FIND NO.38 TO 8.5-9.5 INCH POUNDS
20. FOR FIND NO.36 USE 2003588-011 OR 2003988-021

2003994 JF-272

APOLLO G&N Specification
PS 2003994 Rev A
Original Issue Date: 6 JAN 67
Release Authority: TDRR 32579
Class A Release

PROCUREMENT SPECIFICATION

Record of Revisions

[illegible]

This specification consists of pages 1 to 18 inclusive.

APPROVALS	<i>[Signature]</i> NASA/MS	EC Hall 12/8/66	Westamerid 8 Dec 66 MIT/IL	C. S. Mc. [Signature] 10/12/66 N.G. [Signature] Chas. [Signature] RAY
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APOLLO G&N Specification
 PS 2003994 Rev. B
 Original Issue Date: 6/27/67
 Release Authority: TDRR 32579
 Class A Release

PROCUREMENT SPECIFICATION
 PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS
 DISPLAY AND KEYBOARD ASSEMBLY
 DRAWING NO. 2003994

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
6/27/67	A	32579	Initial Release	<i>[Signature]</i>	
7/27/67	B	33947	1, 13, & 18	<i>[Signature]</i> FA	<i>[Signature]</i> FA

This specification consists of pages 1 to 18 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	W. Starnes	<i>[Signature]</i>
	NASA/MSC	12/8/66	8 Dec 66 MIT/IL	RAY

APOLLO G&N Specification
 PS 2003994 Rev. 6
 Original Issue Date: 6/24/67
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 Class A Release

PROCUREMENT SPECIFICATION
 PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS
 DISPLAY AND KEYBOARD ASSEMBLY
 DRAWING NO. 2003994

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
6/24/67	A	32579	Initial Release	<i>[Signature]</i>	
7/13/67	B	33497	1, 13, & 18	<i>[Signature]</i> FA	<i>[Signature]</i> FA
7/13/67	C	33497	1, 11, 13, 14, 15	<i>[Signature]</i> FA	<i>[Signature]</i> FA

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	W. Starnes	<i>[Signature]</i>
	NASA/MS	12/8/66	8 Dec 66 MIT/IL	RAY

APOLLO G&N Specification
 PS 2003994 Rev. 5D
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 Class A Release

PROCUREMENT SPECIFICATION
 PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS
 DISPLAY AND KEYBOARD ASSEMBLY
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				MIT	NASA
6/3/66	A	32579	Initial Release	<i>[Signature]</i>	
7/2/66	B	33497	1, 13, & 18	<i>[Signature]</i> FH	<i>[Signature]</i> FH
7/17/66	C	34133	1, 11, 12, 14, 15	<i>[Signature]</i> FH	<i>[Signature]</i> FH
8/29/66	D	34133	1, 11, 12, 14, 15, 18	<i>[Signature]</i> FH	<i>[Signature]</i> FH
			Pages 2, 3, 5, 6, 10, 12		
			Retyped		

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	W. Starnes	<i>[Signature]</i>	<i>[Signature]</i>
	NASA/MSC	12/8/66	8 Dec 66 MIT/IL		RAY

APOLLO G&N Specification
 PS 2003994 Rev. E
 Original Issue Date: 6 Jan 67
 Release Authority: TDRR 32579
 Class A Release

PROCUREMENT SPECIFICATION
 PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS
 DISPLAY AND KEYBOARD ASSEMBLY
 DRAWING NO. 2003994

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
(V) 4/24/67	A	32579	Initial Release	<i>[Signature]</i>	
(M) 7/1/67	B	33477	1, 11, & 18	<i>[Signature]</i> FA	<i>[Signature]</i> FA
(V) 7/1/67	C	34100	1, 11, 12, 13, 14, 15	<i>[Signature]</i> FA	<i>[Signature]</i> FA
(V) 8/29/67	D	34769	1, 4, 7, 8, 11, 13, 14, 15	<i>[Signature]</i> FA	<i>[Signature]</i> FA
			Pages 2, 3, 5, 6, 10, 12		
			Retyped		
(M) 11-16-67	E	35071	1, 2	FA	FA

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	W. Starnes	<i>[Signature]</i>
	NASA/MS	12/8/66	8 Dec 66	RAY
			MIT/IL	

APOLLO G&N Specification
 PS 2003994 Rev. 2
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PROCUREMENT SPECIFICATION
 PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS
 DISPLAY AND KEYBOARD ASSEMBLY
 DRAWING NO. 2003994

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4-5-67	A	32579	Initial Release	<i>[Signature]</i>	
7-2-67	B	32577	1, 13, & 18	<i>[Signature]</i> FH	<i>[Signature]</i> FH
7-27-67	C	32575	1, 11, 12, 13, 14, 15	<i>[Signature]</i> FH	<i>[Signature]</i> FH
8-29-67	D	32735	1, 4, 7, 8, 11, 13, 14, 15	<i>[Signature]</i> FH	<i>[Signature]</i> FH
			Pages 2, 3, 5, 6, 10, 12		
			Retyped		
11-11-67	E	35071	1, 2	FH	FH
2-7-68	F	35839	1, 13	<i>[Signature]</i> FH	<i>[Signature]</i> FH

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	Weston	<i>[Signature]</i>
	NASA/MS	12/8/66	8 Dec 66	RAY

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PROCUREMENT SPECIFICATION
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Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4-5-66	A	32579	Initial Release	<i>[Signature]</i>	
7-4-66	B	33477	1, 13, & 18	<i>[Signature]</i> FH <i>[Signature]</i> FH	
7-12-66	C	34100	1, 11, 13, 14, 15	<i>[Signature]</i> FH <i>[Signature]</i> FH	
8-29-66	D	34705	1, 4, 7, 8, 11, 13, 14, 15	<i>[Signature]</i> FH <i>[Signature]</i> FH	
			Pages 2, 3, 5, 6, 10, 12		
			Retyped		
11-16-67	E	35001	1, 2	FH	FH
2-2-68	F	35339	1, 13	<i>[Signature]</i> FH <i>[Signature]</i> FH	
3-22-68	G	35918	1, 13, 18	<i>[Signature]</i> FH <i>[Signature]</i> FH	

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	W. Starnard	<i>[Signature]</i>
	NASA/MSX	12/8/66	8 Dec 66 MIT/IL	RAY

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PROCUREMENT SPECIFICATION
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Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4-19-64	A	32579	Initial Release	<i>[Signature]</i>	
7-1-67	B	33497	1, 13, & 18	<i>[Signature]</i> FA	<i>[Signature]</i> FA
7-1-67	C	34125	1, 11, 12, 13, 14, 15	<i>[Signature]</i> FA	<i>[Signature]</i> FA
8-29-67	D	34765	1, 4, 7, 8, 11, 13, 14, 15	<i>[Signature]</i> FA	<i>[Signature]</i> FA
			Pages 2, 3, 5, 6, 10, 12		
			Retyped		
11-16-67	E	35071	1, 2	FA	FA
2-7-68	F	35839	1, 13	<i>[Signature]</i> FA	<i>[Signature]</i> FA
3-22-68	G	35918	1, 5, 7, 8	<i>[Signature]</i> FA	<i>[Signature]</i> FA
4-26-68	H	36118	1, 6	<i>[Signature]</i> FA	<i>[Signature]</i> FA

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i>	EC Hall	Westamand	<i>[Signature]</i>
	NASA/MS	12/8/66	8 Dec 66	RAY

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PROCUREMENT SPECIFICATION
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Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4-1-67	A	32579	Initial Release	<i>[Signature]</i>	
7-4-67	B	33497	1, 13, & 18	<i>[Signature]</i> FH	<i>[Signature]</i> FH
7-12-67	C	34149	1, 11, 1, 1, 14, 15	<i>[Signature]</i> FH	<i>[Signature]</i> FH
8-29-67	D	34705	1, 1, 1, 1, 11, 13, 1, 15 Pages 2, 3, 5, 6, 10, 12	<i>[Signature]</i> FH	<i>[Signature]</i> FH
			Retyped		
11-11-67	E	35071	1, 2	FH	FH
2-2-68	F	35334	1, 13	<i>[Signature]</i> FH	<i>[Signature]</i> FH
2-12-68	G	35918	1, 5, 7, 8	<i>[Signature]</i> FH	<i>[Signature]</i> FH
4-16-68	H	36118	1, 6	<i>[Signature]</i> FH	<i>[Signature]</i> FH
7-11-68	J	36815	1, 2, 7, 8, 11, 13	<i>[Signature]</i> FH	<i>[Signature]</i> FH

This specification consists of pages 1 to 15 inclusive.

APPROVALS	<i>[Signature]</i> NASA/MS	EC Hall Westamond 12/8/66 8 Dec 66 MIT/IL	<i>[Signature]</i> RAY

1. SCOPE

1.1 This specification establishes the detail requirements for complete identification and acceptance of the Display and Keyboard Assembly Part No. 2003994-011.

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein.

2.1 Effective Issues. Unless otherwise specified herein, Military and Government Standards and specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND 1002214

General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.

DRAWINGS

APOLLO G&N

2003994

DISPLAY AND KEYBOARD ASSEMBLY

(Copies of Specifications, Standards, Drawings, Bulletins and Publications required by suppliers in connection with specific procurement functions should be obtained from the Procuring Activity or as directed by the Contracting Officer).

APOLLO G&N Specification
PS 2003994
Rev D

1. SCOPE

1.1 This specification establishes the detail requirements for complete identification and acceptance of the Display and Keyboard Assembly Part No. 2003994-011.

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein.

2.1 Effective Issues. Unless otherwise specified herein, Military and Government Standards and specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND 1002214

General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.

DRAWINGS

APOLLO G&N

2003994

DISPLAY AND KEYBOARD ASSEMBLY

(Copies of Specifications, Standards, Drawings, Bulletins and Publications required by suppliers in connection with specific procurement functions should be obtained from the Procuring Activity or as directed by the Contracting Officer).

APOLLO G&N Specification
PS 2003994
Rev J

1. SCOPE

1.1 This specification establishes the detail requirements for complete identification and acceptance of the Display and Keyboard Assembly Part No. 2003994.

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein.

2.1 Effective Issues. Unless otherwise specified herein, Military and Government Standards and specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

MD 1002214

General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.

DRAWINGS

APOLLO G&N

2003994

DISPLAY AND KEYBOARD ASSEMBLY

(Copies of Specifications, Standards, Drawings, Bulletins and Publications required by suppliers in connection with specific procurement functions should be obtained from the Procuring Activity or as directed by the Contracting Officer).

2.2 Conflicting Requirements. In the event of conflict between the requirements of the contract, this Specification and the documents listed in this section, the following order of precedence shall apply and the contractor shall notify MIT Apollo Management of the conflict as soon as it is determined.

- a. The contract
- b. This Specification
- c. Documents listed in this section

3. REQUIREMENTS

3.1 PERFORMANCE. The Display and Keyboard Assembly has the capability to store, display, and transfer binary information as required by the Apollo Guidance Computer. The assembly is comprised of a Keyboard Module, Power Supply Module and six Indicator Driver Modules.

3.1.1 Continuity. The resistance between pin 39 of J9 and chassis shall be 0.5 ohms maximum.

3.1.2 Insulation Resistance. The insulation resistance between pin 39 of J9, and all other pins connected together shall be 100 megohms minimum.

3.1.3 Input Requirements. The assembly shall perform as specified herein when supplied with the following inputs:

3.1.3.1 Pins 8 and 39 of J9 shall be connected to ground (0 VDC).

3.1.3.2 DC Voltage. The following DC voltage shall be applied to the assembly:

- a. 14.0 ± 0.1 VDC
- b. 28.0 ± 0.1 VDC
- c. 5.0 ± 0.1 VDC

Rev A

3.1.3.3 AC Voltage. The AC voltage supplied to the assembly shall be 75 VRMS at 400 ± 8 cps single phase controlled to an accuracy of $\pm 2\%$, be variable up to 115 ± 5 VRMS, and be capable of being turned OFF.

3.1.3.4 Input Sync Pulse. The input sync pulse supplied to the assembly shall be generated from a source having the following characteristics:

- a. High Level 680K ohms \pm 5% to ground (0 VDC)
- b. Low Level 2K ohms \pm 5% returned to not more than 0.5V
- c. Frequency 800 \pm 16 cps

3.1.4 Legend Illumination. With a 10K ohm potentiometer, connected between pins 4 and 5 of J9, varied from minimum to maximum resistance the brightness of the legends (Noun, Verb, Program, and the resistance bars above each register) shall vary from OFF to 10-18 Foot-Lamberts.

3.1.5 Keyboard Illumination. With the 115 VRMS supply set to 115 ± 5 VRMS for one minute and then reduced to 75.0 ± 1.5 VRMS, the Keyboard keys shall be illuminated at 0.5 ± 0.3 Foot-Lamberts.

3.1.6 Keyboard Outputs. With each Keyboard key depressed individually, the outputs monitored at the output pins listed in Table 3-1 shall be logic "ones" and "zeros" as indicated in Table 3-1.

3.1.6.1 Logic One. A logic one shall be the equivalent of the 28 VDC supply applied thru a 1.0K ohm series resistance and a series diode.

3.1.6.2 Logic Zero. A logic zero shall be equivalent to an open circuit (no output).

3.1.7 Incandescent Indicators. To insure that the incandescent indicators and their associated latching relays are OFF, a logic input as specified below shall be applied to the pins of J9 as listed below:

[illegible]

3.1.7.1 Logic One. A logic one shall be generated from a source of 4K ohms \pm 5% returned to not more than 0.4 Volts for 15.0 \pm 0.1 msec. -1.5

3.1.7.2 Logic Zero. A logic zero shall be generated from a source of 680K ohms \pm 5% to ground (0 VDC).

3.1.8 Flashing Alarm Characters. With the flashing timing pulse applied to pins 46 and 72 of J9, the alarm indicators KEY REL and OPR ERR shall flash.

3.1.8.1 Flasher Timing Pulse. The Flasher Timing Pulse applied to the assembly shall be generated from a source having the following characteristics:

- | | |
|---------------|---|
| a. High Level | 680K ohms \pm 5% to ground (0 VDC) |
| b. Low Level | 4K ohms \pm 5% returned to not more than 0.4V |
| c. Frequency | 1.5 \pm 0.3 cps |
| d. Duty Cycle | approximately 50% (for reference only) |

3.1.9 Flashing Noun Characters. With the Flasher Timing Pulse specified in paragraph 3.1.8.1 applied to pin 70 of J9 and the Noun numerical characters programmed for 8's (ref. Tables 3-4 and 3-5), the numerical characters shall flash.

3.1.10 Flashing Verb Characters. With the Flasher Timing Pulse specified in paragraph 3.1.8.1 applied to pin 70 of J9 and the Verb numerical characters programmed for 8's (ref. Tables 3-4 and 3-5), the numerical characters shall flash.

3.1.7.1 Logic One. A logic one shall be generated from a source of 4K ohms \pm 5% returned to not more than 0.4 Volts for 15.0 \pm 0 -1.5 msec.

3.1.7.2 Logic Zero. A logic zero shall be generated from a source of 680K ohms \pm 5% to ground (0 VDC).

3.1.8 Flashing Alarm Characters. With the flashing timing pulse applied to pins 46 and 72 of J9, the alarm indicators KEY REL and OPR ERR shall flash.

3.1.8.1 Flasher Timing Pulse. The Flasher Timing Pulse applied to the assembly shall be generated from a source having the following characteristics:

- a. High Level 680K ohms \pm 5% to ground (0 VDC)
- b. Low Level 4K ohms \pm 5% returned to not more than 0.4V
- c. Frequency 1.5 \pm 0.3 cps
- d. Duty Cycle approximately 50% (for reference only)

3.1.9 Flashing Noun Characters. With the Flasher Timing Pulse specified in paragraph 3.1.8.1 applied to pin 70 of J9 and the Noun numerical characters programmed for 8's (ref. Tables 3-4 and 3-5), the numerical characters shall flash.

3.1.10 Flashing Verb Characters. With the Flasher Timing Pulse specified in paragraph 3.1.8.1 applied to pin 70 of J9 and the Verb numerical characters programmed for 8's (ref. Tables 3-4 and 3-5), the numerical characters shall flash.

TABLE 3-1

KEY DEPRESSED	OUTPUT PINS							
	79	76	77	78	51	49	48	28
KEY REL	1	1	0	0	1	0	0	0
VERB	1	0	0	0	1	0	0	0
NOUN	1	1	1	1	1	0	0	0
ENTR	1	1	1	0	0	0	0	0
CLR	1	1	1	1	0	0	0	0
+	1	1	0	1	0	0	0	0
-	1	1	0	1	1	0	0	0
0	1	0	0	0	0	0	0	0
1	0	0	0	0	1	0	0	0
2	0	0	0	1	0	0	0	0
3	0	0	0	1	1	0	0	0
4	0	0	1	0	0	0	0	0
5	0	0	1	0	1	0	0	0
6	0	0	1	1	0	0	0	0
7	0	0	1	1	1	0	0	0
8	0	1	0	0	0	0	0	0
9	0	1	0	0	1	0	0	0
RSET	1	0	0	1	0	0	1	0
STBY	0	0	0	0	0	1	0	1

NOTE: The figures one and zero used in Table 3-1 represent the logic "one" and "zero" levels specified in paragraphs 3.1.6.1 and 3.1.6.2.

TABLE 3-1

KEY DEPRESSED	OUTPUT PINS							
	79	76	77	78	51	49	48	28
KEY REL	1	1	0	0	1	0	0	0
VERB	1	0	0	0	1	0	0	0
NOUN	1	1	1	1	1	0	0	0
ENTR	1	1	1	0	0	0	0	0
CLR	1	1	1	1	0	0	0	0
+	1	1	0	1	0	0	0	0
-	1	1	0	1	1	0	0	0
0	1	0	0	0	0	0	0	0
1	0	0	0	0	1	0	0	0
2	0	0	0	1	0	0	0	0
3	0	0	0	1	1	0	0	0
4	0	0	1	0	0	0	0	0
5	0	0	1	0	1	0	0	0
6	0	0	1	1	0	0	0	0
7	0	0	1	1	1	0	0	0
8	C	1	0	0	0	0	0	0
9	0	1	0	0	1	0	0	0
RSET	1	0	0	1	0	0	1	0
STBY	0	0	0	0	0	1	0	1

NOTE: The figures one and zero used in Table 3-1 represent the logic "one" and "zero" levels specified in paragraphs 3.1.6.1 and 3.1.6.2.

3.1.11 Status and Caution Indicators. With a logic "one" applied to an input pin of J9 as specified in Table 3-2 and the input voltage set to 5.0 ± 0.1 VDC the corresponding status or caution indicator shall be illuminated at 15 ± 3 Foot-Lamberts. The exception shall be the COMP ACTY indicator, which shall be illuminated at 10 -18 Foot-Lamberts with the 10K ohm potentiometer (ref. paragraph 3.1.4) set to maximum resistance. Also a contact closure shall exist between pins of J9 as specified in Table 3-2.

TABLE 3-2

Logic Input	J9 Input Pin	Indicator Illuminated.	Indicator Color (reference only)	Contact Closure Between pins of J9
1	47	UPLINK ACTY	White	
1	25	STBY	White	58 and 35
1	71	TEMP	Yellow	57 and 31
1	44	RESTART	Yellow	57 and 31
1	26	COMP ACTY	Green*	
1	69			37 and 61
1	46	KEY REL	White	
1	18			36 and 60
1	45			55 and 84
1	45			15 and 32
1	27			80 and 81
1	27			57 and 83
1	66			33 and 56
1	72	OPR ERR	White	
0	66			16 and 56
0	44			31 and 53
0	18			36 and 85
0	45			57 and 84
0	45			14 and 32
0	69			19 and 37
0	27			54 and 83
0	27			82 and 81
0	25			59 and 35

*Electroluminescent indicator.

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3.1.11 Status and Caution Indicators. With a logic "one" applied to an input pin of J9 as specified in Table 3-2 and the input voltage set to 5.0 ± 0.1 VDC the corresponding status or caution indicator shall be illuminated. The average intensity of the incandescent display shall be 15 ± 3 Foot-Lamberts. The exception shall be the COMP ACTY indicator, which shall be illuminated at an average intensity of 10-24 Foot-Lamberts with the 10K ohm potentiometer (ref. paragraph 3.1.4) set to maximum resistance. Also a contact closure shall exist between pins of J9 as specified in Table 3-2.

TABLE 3-2

Logic Input	J9 Input Pin	Indicator Illuminated	Indicator Color (reference only)	Contact Closure Between pins of J9
1	47	UPLINK ACTY	White	
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1	71	TEMP	Yellow	57 and 31
1	44	RESTART	Yellow	57 and 31
1	26	COMP ACTY	Green*	
1	69			37 and 61
1	46	KEY REL	White	
1	18			36 and 60
1	45			55 and 84
1	45			15 and 32
1	27			80 and 81
1	27			57 and 83
1	66			33 and 56
1	72	OPR ERR	White	
0	66			16 and 56
0	44			31 and 53
0	18			36 and 85
0	45			57 and 84
0	45			14 and 32
0	69			19 and 37
0	27			54 and 83
0	27			82 and 81
0	25			59 and 35

*Electroluminescent indicator.

APOLLO G&N Specification
PS 2003994 Rev. 1

3.1.11 Status and Caution Indicators. With a logic "one" applied to an input pin of J9 as specified in Table 3-2 and the input voltage set to 5.0 ± 0.1 VDC the corresponding status or caution indicator shall be illuminated. The average intensity of the incandescent display shall be 15 ± 3 Foot-Lamberts. The exception shall be the COMP ACTY indicator, which shall be illuminated at an average intensity of 10-24 Foot-Lamberts with the 10K ohm potentiometer (ref. paragraph 3.1.4) set to maximum resistance. Also a contact closure shall exist between pins of J9 as specified in Table 3-2.

TABLE 3-2

Logic Input	J9 Input Pin	Indicator Illuminated	Indicator Color (reference only)	Contact Closure Between pins of J9
1	47	UPLINK ACTY	White	
1	25	STBY	White	58 and 35
1	71	TEMP	Yellow	57 and 31
1	44	RESTART	Yellow	57 and 31
1	26	COMP ACTY	Green*	
1	69			37 and 61
1	46	KEY REL	White	
1	18			36 and 60
1	45			55 and 84
1	45			15 and 32
1	27			80 and 81
1	27			57 and 83
1	66			33 and 56
1	72	OPR ERR	White	
0	66			16 and 56
0	44			31 and 53
0	18			36 and 85
0	45			57 and 84
0	45			14 and 32
0	69			19 and 37
0	27			54 and 83
0	27			82 and 81
0	25			59 and 35

*Electroluminescent indicator.

3.1.11 Status and Caution Indicators. With a logic "one" applied to an input pin of J9 as specified in Table 3-2 and the input voltage set to 5.0 ± 0.1 VDC the corresponding status or caution indicator shall be illuminated. The current shall be monitored for each indicator. White shall be $225 \text{ ma} \pm 20\%$, yellow shall be $180 \text{ ma} \pm 20\%$. The intensity limit for the Status (white) indicators shall be 8-28 foot-lamberts and the maximum legend intensity shall not exceed the minimum by more than a ratio of 2:1 in a given panel. The intensity for the Caution (yellow) indicators shall be 8-28 foot-lamberts and the maximum legend intensity shall not exceed the minimum by more than a ratio of 2:1 in a given panel. The exception shall be the COMP ACTY Indicator, which shall be illuminated at an average intensity of 10-24 foot-lamberts with the 10K ohm potentiometer (ref. Para. 3.1.4) set to maximum resistance. Also a contact closure shall exist between pins of J9 as specified in Table 3-2.

TABLE 3-2

Logic Input	J9 Input Pin	Indicator Illuminated	Indicator Color (reference only)	Contact Closure Between pins of J9
1	47	UPLINK ACTY	White	
1	25	STBY	White	58 and 35
1	71	TEMP	Yellow	57 and 31
1	44	RESTART	Yellow	57 and 31
1	26	COMP ACTY	Green*	
1	69			37 and 61
1	46	KEY REL	White	
1	18			36 and 60
1	45			55 and 84
1	45			15 and 32
1	27			80 and 81
1	27			57 and 83
1	66			33 and 56
1	72	OPR ERR	White	
0	66			16 and 56
0	44			31 and 53
0	18			36 and 85
0	45			57 and 84
0	45			14 and 32
0	69			19 and 37
0	27			54 and 83
0	27			82 and 81
0	25			59 and 35

*Electroluminescent indicator.

3.1.11.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 as specified in Table 3-2, contact closure shall exist between pins of J9 as specified in Table 3-2.

3.1.11.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12 Isolated Relay Indicators. When programmed for RLYWD 12, and a logic "one" applied to an input pin of J9 as specified in Table 3-3, the corresponding isolated relay indicator shall be illuminated at 15 ± 3 Foot-Lamberts. Also contact closure shall exist between pins of J9 as specified in Table 3-3.

3.1.12.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 specified in Table 3-3, a contact closure shall exist between pins of J9 as specified in Table 3-3.

TABLE 3-3

Logic Input	J9 Input Pin	Indicator Illuminated	Contact Closure Between Pins
1	41	NO ATT	
1	3	GIMBAL LOCK	57 and 31
1	10		17 and 34
1	23	TRACKER	57 and 31
1	42	PROG	57 and 31
0	10		6 and 34

3.1.12.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12.3 RLYWD 12 Input. The RLYWD 12 input shall be applied at the same time the indicator input pins receive a logic input signal. RLYWD 12 shall be a combination of logic "ones" and "zeros" (ref. section 3.1.13.2) applied to the pins of J9 as listed below:

Pins of J9	68	43	24	11
Logic Input	1	1	0	0

3.1.11.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 as specified in Table 3-2, contact closure shall exist between pins of J9 as specified in Table 3-2.

3.1.11.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2

3.1.12 Isolated Relay Indicators. When programmed for RLYWD 12, and a logic "one" applied to an input pin of J9 as specified in Table 3-3, the corresponding isolated relay indicator shall be illuminated. The average intensity of the incandescent display shall be 15 ± 3 Foot-Lamberts. Also contact closure shall exist between pins of J9 as specified in Table 3-3.

3.1.12.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 specified in Table 3-3, a contact closure shall exist between pins of J9 as specified in Table 3-3.

TABLE 3-3

Logic Input	J9 Input Pin	Indicator Illuminated	Contact Closure Between Pins
1	41	NO ATT	
1	3	GIMBAL LOCK	57 and 31
1	10		17 and 34
1	23	TRACKER	57 and 31
1	42	PROG	57 and 31
0	10		6 and 34

3.1.12.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12.3 RLYWD 12 Input. The RLYWD 12 input shall be applied at the same time the indicator input pins receive a logic input signal. RLYWD 12 shall be a combination of logic "ones" and "zeros" (ref. section 3.1.13.2) applied to the pins of J9 as listed below:

Pins of J9	68	43	24	11
Logic Input	1	1	0	0

3.1.11.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 as specified in Table 3-2, contact closure shall exist between pins of J9 as specified in Table 3-2.

3.1.11.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2

3.1.12 Isolated Relay Indicators. When programmed for RLYWD 12, and a logic "one" applied to an input pin of J9 as specified in Table 3-3, the corresponding isolated relay indicator shall be illuminated. The average intensity of the incandescent display shall be 15 \pm 4 ~~milli~~ ^{milli} ~~lumens~~ ^{lumens}. Also contact closure shall exist between pins of J9 as specified in Table 3-3.

3.1.12.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 specified in Table 3-3, a contact closure shall exist between pins of J9 as specified in Table 3-3.

TABLE 3-3

Logic Input	J9 Input Pin	Indicator Illuminated	Contact Closure Between Pins
1	41	NO ATT	
1	3	GIMBAL LOCK	57 and 31
1	10		17 and 34
1	23	TRACKER	57 and 31
1	42	PROG	57 and 31
0	10		6 and 34

3.1.12.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12.3 RLYWD 12 Input. The RLYWD 12 input shall be applied at the same time the indicator input pins receive a logic input signal. RLYWD 12 shall be a combination of logic "ones" and "zeros" (ref. section 3.1.13.2) applied to the pins of J9 as listed below:

Pins of J9	68	43	24	11
Logic Input	1	1	0	0

3.1.11.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 as specified in Table 3-2, contact closure shall exist between pins of J9 as specified in Table 3-2.

3.1.11.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12 Isolated Relay Indicators. When programmed for RLYWD 12, and a logic "one" applied to an input pin of J9 as specified in Table 3-3, the corresponding isolated relay indicator shall be illuminated. The intensity of the Status/Caution Legends and Current measurements shall be as specified in Paragraph 3.1.11. Also contact closure shall exist between pins of J9 as specified in Table 3-3.

3.1.12.1 Logic Zero Input. With a logic "zero" applied to an input pin of J9 specified in Table 3-3, a contact closure shall exist between pins of J9 as specified in Table 3-3.

TABLE 3-3

Logic Input	J9 Input Pin	Indicator Illuminated	Contact Closure Between Pins
1	41	NO ATT	
1	3	GIMBAL LOCK	57 and 31
1	10		17 and 34
1	23	TRACKER	57 and 31
1	42	PROG	57 and 31
0	10		6 and 34

3.1.12.2 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in sections 3.1.7.1 and 3.1.7.2.

3.1.12.3 RLYWD 12 Input. The RLYWD 12 input shall be applied at the same time the indicator input pins receive a logic input signal. RLYWD 12 shall be a combination of logic "ones" and "zeros" (ref. section 3.1.13.2) applied to the pins of J9 as listed below:

Pins of J9	68	43	24	11
Logic Input	1	1	0	0

3.1.13 Numerical Electroluminescent Indicators. With the 10K potentiometer (ref. paragraph 3.1.4) set to maximum resistance, and the appropriate RLYWD and RLYBT combinations of logic "ones" and "zeros" applied as specified in Tables 3-4 and 3-5, the corresponding Noun, Verb, and Program legend numerical characters and the numerical characters of all registers shall be illuminated at 10-18 Foot-Lamberts.

TABLE 3-4

RLYWD				RLYBT											
Word Bits				Sign Bit	Character 2 Bits					Character 1 Bits					
16	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
DSKY INPUT PINS															
68	43	24	11	12	67	42	23	10	3	66	41	22	9	2	
1	0	1	1		PROGRAM CHAR 2					PROGRAM CHAR 1					
1	0	1	0		VERB CHAR 2					VERB CHAR 1					
1	0	0	1		NOUN CHAR 2					NOUN CHAR 1					
1	0	0	0							REG 1 CHAR 5					
0	1	1	1	R1(+)	REG 1 CHAR 4					REG 1 CHAR 3					
0	1	1	0	R1(-)	REG 1 CHAR 2					REG 1 CHAR 1					
0	1	0	1	R2(+)	REG 2 CHAR 5					REG 2 CHAR 4					
0	1	0	0	R2(-)	REG 2 CHAR 3					REG 2 CHAR 2					
0	0	1	1		REG 2 CHAR 1					REG 3 CHAR 5					
0	0	1	0	R3(+)	REG 3 CHAR 4					REG 3 CHAR 3					
0	0	0	1	R3(-)	REG 3 CHAR 2					REG 3 CHAR 1					

3.1.13.1 With the numerical electroluminescent characters programmed for 8's (ref. Tables 3-4 and 3-5) and the 10K ohm potentiometer set to minimum resistance all numerical electroluminescent indicators shall be OFF.

TABLE 3-5

Numerical Displays	Character Bits				
	10 or 5	9 or 4	8 or 3	7 or 2	6 or 1
Blank	0	0	0	0	0
0	1	0	1	0	1
1	0	0	0	1	1
2	1	1	0	0	1
3	1	1	0	1	1
4	0	1	1	1	1
5	1	1	1	1	0
6	1	1	1	0	0
7	1	0	0	1	1
8	1	1	1	0	1
9	1	1	1	1	1

3.1.13.2 For clarification, an example in the use of Tables 3-4 and 3-5 is given below:

EXAMPLE:

Problem: Program the numeral 1 into Character 2 of the Program legend.

Explanation: The appropriate RLYWD and its input pins Character 2 input pins are obtained from Table 3-4. The numerical logic input is obtained from Table 3-5. The input pins and logic input are as follows:

RLYWD				RLYBT				
Word Bits				Character Bits				
16	14	13	12	10	9	8	7	6
J9 Input Pins								
68	43	23	11	67	42	23	10	3
Logic Input								
1	0	1	1	0	0	0	1	1

3.1.13.3 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in paragraphs 3.1.7.1 and 3.1.7.2.

3.1.14 Thermal Cycle Extremes and Marginal Voltages:

3.1.14.1 Thermal Cycle. The assembly shall be subjected to the thermal cycle specified below. Dynamic tests shall be performed during the last two thermal extremes as specified in paragraphs 3.1.14.2 thru 3.1.14.4.

- a. Set ambient temperature to $0^{\circ}\text{C} +0^{\circ}\text{C}$ for 8 ± 1 hours.
 -2.8°C
- b. Increase the ambient temperature to $65^{\circ}\text{C} +2.8^{\circ}\text{C}$ in not less than 40 minutes. This temperature shall be maintained for 3 hours.
 -0°C
- c. Decrease the ambient temperature to $0^{\circ}\text{C} +0^{\circ}\text{C}$ in not less than 40 minutes. This temperature shall be maintained for 1.5 hours.
 -2.8°C
- d. Increase the ambient temperature to $65^{\circ}\text{C} +2.8^{\circ}\text{C}$ in not less than 40 minutes. This temperature shall be maintained for 1.5 hours.
 -0°C
- e. Decrease the ambient temperature to $0^{\circ}\text{C} +0^{\circ}\text{C}$ in not less than 40 minutes. This temperature shall be maintained for 1.5 hours.
 -2.8°C
- f. Increase the ambient temperature to $65^{\circ}\text{C} +2.8^{\circ}\text{C}$ in not less than 40 minutes. This temperature shall be maintained for 1.5 hours.
 -0°C

3.1.14.2 Low Marginal Voltages/Low Temperature. The assembly shall perform as specified in paragraphs 3.1.4 and 3.1.6 thru 3.1.13 when the 28.0V supply is set to 20.0 ± 0.1 VDC, and the 14V supply is set to 12.2 ± 0.1 VDC, while the ambient temperature is maintained at $0^{\circ}\text{C} +0^{\circ}\text{C}$
 -2.8°C .

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3.1.13.3 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in paragraphs 3.1.7.1 and 3.1.7.2.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Apollo G&N Drawing 2003994 and all drawings and engineering data referenced thereon.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein. See Table 4-1, Product Performance and Configuration Requirement/Quality Verification Cross Reference Index.

TABLE 4-1

Requirement	Verification	Requirement	Verification
3.1.1	4.2.2	3.1.11	4.2.14
3.1.2	4.2.3	3.1.11.1	4.2.14.1
3.1.3.2	4.2.4.1	3.1.12	4.2.15
3.1.3.2	4.2.4.2	3.1.12.1	4.2.15.1
3.1.3.2	4.2.4.3	3.1.13	4.2.16
3.1.3.3	4.2.5	3.1.13.1	4.2.16.1
3.1.3.4	4.2.4.4		
3.1.4	4.2.7		
3.1.5	4.2.8		
3.1.6	4.2.9		
3.1.7	4.2.10		
3.1.8	4.2.11		
3.1.9	4.2.12		
3.1.10	4.2.13		

3.1.13.3 Logic One and Zero. The logic "ones" and "zeros" referenced in this section shall be as specified in paragraphs 3.1.7.1 and 3.1.7.2.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Apollo G&M Drawing 2003994 and all drawings and engineering data referenced thereon.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein. See Table 4-1, Product Performance and Configuration Requirement/Quality Verification Cross Reference Index.

TABLE 4-1

Requirement	Verification	Requirement	Verification
3.1.1	4.2.2	3.1.11	4.2.14, 4.2.6, 4.2.4.3
3.1.2	4.2.3	3.1.11.1	4.2.14.1
3.1.3.2	4.2.4.1	3.1.12	4.2.15, 4.2.6, 4.2.4.3
3.1.3.2	4.2.4.2	3.1.12.1	4.2.15.1
3.1.3.2	4.2.4.3	3.1.13	4.2.16, 4.2.6
3.1.3.3	4.2.5	3.1.13.1	4.2.16.1
3.1.3.4	4.2.4.4		
3.1.4	4.2.7, 4.2.6		
3.1.5	4.2.8, 4.2.6		
3.1.6	4.2.9		
3.1.7	4.2.10		
3.1.8	4.2.11		
3.1.9	4.2.12		
3.1.10	4.2.13		

3.1.14.3 Low Marginal Voltages/High Temperature. The assembly shall perform as specified in paragraphs 3.1.4 and 3.1.6 thru 3.1.13 when the 28V supply is set to 20.0 ± 0.1 VDC, and the 14V supply is set to 12.2 ± 0.1 VDC, while the ambient temperature is maintained at $65^\circ\text{C} +2.8^\circ\text{C}$ to -0°C .

3.1.14.4 High Marginal Voltages/High Temperature. The assembly shall perform as specified in paragraphs 3.1.4 and 3.1.6 thru 3.1.13 when the 28.0V supply is set to 32.0 ± 0.1 VDC, and the 14V supply is set to 10.0 ± 0.1 VDC, while the ambient temperature is maintained at $65^\circ\text{C} +2.8^\circ\text{C}$ to -0°C .

During marginal voltage and thermal extremes, no light intensity limits shall apply. Visual indication will insure system operation. The Keyboard shall not be energized at high thermal limits.

3.1.15 Vibration. The assembly shall perform as specified in paragraph 3.1.4 thru 3.1.13 after being subjected to the vibration limits specified below:

- | | |
|-------------------------|---|
| a. Frequency Range | 10 to 2000 to 10 cps |
| b. Frequency Sweep Rate | at a logarithmic rate of one minute per octave |
| c. Velocity | $1.83 \pm 10\%$ inches per second in the frequency range of 10 to 100 cps |
| d. Acceleration | 3 g's $\pm 10\%$ peak in the frequency range of 100 to 2000 cps |
| e. Planes | each of the three mutually perpendicular axes. |

3.1.15.1 Switch Chatter. During vibration there shall be no evidence of Keyboard switch chatter as specified below:

Key Lines - No contact closures of more than 50 usec duration.

Key Reset - No contact opens of more than 50 usec duration.

4.1.1 Test Conditions

4.1.1.1 Environmental. The assembly shall be tested under the following ambient conditions:

- a. Temperature: $25^{\circ} \pm 10^{\circ}\text{C}$
- b. Relative Humidity: 90% max
- c. Barometric Pressure: 28 to 32 inches of Hg

4.1.1.2 Assembly Case Ground. The dynamic tests specified in paragraphs 4.2.6 and 4.2.16 shall be conducted with pins 8 and 39 of J9 connected to ground (0 VDC).

4.1.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and re-examination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.2 TESTS

4.2.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of APOLLO G&N Drawing 2003994. Particular attention shall be given to inspection for damage to surfaces, structure, and equipment, including contaminants, pin misalignment, and legibility and appearance of marking.

4.2.2 Continuity. Verify that the resistance between pin 39 of J9 and the assembly housing is in accordance with paragraph 3.1.1.

4.2.3 Insulation Resistance. Remove all lights and modules except Keyboard from assembly. Using test equipment with a test potential of 50 VDC limited to a short circuit current of 50 microamperes, measure the resistance between pin 39 of J9 and all other pins of J9 connected together. Verify that the resistance complies with that specified in paragraph 3.1.2.

3.1.16 Leak Rate. With the assembly pressurized to 2 psig at 70°F using a mixture of 90% nitrogen and 10% helium, the leak rate shall not exceed 1.0×10^{-4} cc/atm/sec.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Apollo G&N Drawing 2003994 and all drawings and engineering data referenced thereon.

3.2.2 Weight. The assembly shall weigh not more than 17.5 pounds.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein. See Table 4-1, Product Performance and Configuration Requirement/Quality Verification Cross Reference Index.

TABLE 4-1

Requirement	Verification	Requirement	Verification
3.1.1	4.2.2	3.1.11	4.2.14
3.1.2	4.2.3	3.1.11.1	4.2.14.1
3.1.3.2	4.2.4.1	3.1.12	4.2.15
3.1.3.2	4.2.4.2	3.1.12.1	4.2.15.1
3.1.3.2	4.2.4.3	3.1.13	4.2.16
3.1.3.3	4.2.5	3.1.13.1	4.2.16.1
3.1.3.4	4.2.4.4	3.1.14.1	4.3.1.1
3.1.4	4.2.7	3.1.14.2	4.3.1.2
3.1.5	4.2.8	3.1.14.3	4.3.1.3
3.1.6	4.2.9	3.1.14.4	4.3.1.4
3.1.7	4.2.10	3.1.15	4.3.2
3.1.8	4.2.11	3.1.15.1	4.3.2.1
3.1.9	4.2.12	3.1.16	4.3.3
3.1.10	4.2.13	3.2.2	4.3.4

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3.1.16 Leak Rate. With the assembly pressurized to 2 psig at $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ using a mixture of 90% nitrogen and 10% helium, the leak rate shall not exceed 1.0×10^{-4} cc/sec/atm.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Apollo G&N Drawing 2003994 and all drawings and engineering data referenced thereon.

3.2.2 Weight. The assembly weight shall be recorded.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein. See Table 4-1, Product Performance and Configuration Requirement/Quality Verification Cross Reference Index.

TABLE 4-1

Requirement	Verification	Requirement	Verification
3.1.1	4.2.2	3.1.11	4.2.14
3.1.2	4.2.3	3.1.11.1	4.2.14.1
3.1.3.2	4.2.4.1	3.1.12	4.2.15
3.1.3.2	4.2.4.2	3.1.12.1	4.2.15.1
3.1.3.2	4.2.4.3	3.1.13	4.2.16
3.1.3.3	4.2.5	3.1.13.1	4.2.16.1
3.1.3.4	4.2.4.4	3.1.14.1	4.3.1.1
3.1.4	4.2.7	3.1.14.2	4.3.1.2
3.1.5	4.2.8	3.1.14.3	4.3.1.3
3.1.6	4.2.9	3.1.14.4	4.3.1.4
3.1.7	4.2.10	3.1.15	4.3.2
3.1.8	4.2.11	3.1.15.1	4.3.2.1
3.1.9	4.2.12	3.1.16	4.3.3
3.1.10	4.2.13	3.2.2	4.3.4

4.2.4 Input Requirements. All tests shall be performed with the input requirements specified in paragraph 3.1.3 applied, when required to the pins of J9 as detailed below:

4.2.4.1 14V Supply. The 14 VDC Supply shall be applied to pin 1 with pin 8 used as the DC return.

4.2.4.2 28V Supply. The 28 VDC Supply shall be applied to pins 21 and 30 with pin 8 used as the DC return.

4.2.4.3 5V Supply. The 5 VDC Supply shall be applied to pins 62 and 64 with pins 63 and 65 used as the DC return.

4.2.4.4 Input Sync Pulse. The Input Sync Pulse specified in paragraph 3.1.3.4 shall be applied to pin 7.

4.2.5 115V Supply. The 115 VRM Supply shall be applied to pin 38 with pin 40 used as the AC return.

4.2.6 Intensity Measurements. Display indicator intensity measurements shall be calculated in the following manner:

- a. Electroluminescent Displays - intensity measurements shall be the average of six sample locations.
- b. Incandescent Displays - intensity measurements shall be the average of six sample locations at least 1/8 inch in from the illuminated segment border.
- c. Push Switches - intensity measurements shall be the average of a single centrally located reading for each of the push switches.

Display indicators shall be visually inspected for abnormal dark spots and light intensity variations.

4.2.7 Legend Illumination. Apply all inputs specified in paragraph 4.2.4. Vary the 10K ohm potentiometer from minimum to maximum resistance and verify that the brightness of the legends shall be as specified in paragraph 3.1.4.

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4.2.4 Input Requirements. All tests shall be performed with the input requirements specified in paragraph 3.1.3 applied, when required to the pins of J9 as detailed below:

4.2.4.1 14V Supply. The 14 VDC Supply shall be applied to pin 1 with pin 8 used as the DC return.

4.2.4.2 28V Supply. The 28 VDC Supply shall be applied to pins 21 and 30 with pin 8 used as the DC return.

4.2.4.3 5V Supply. The 5 VDC Supply shall be applied to pins 62 and 64 with pins 63 and 65 used as the DC return.

4.2.4.4 Input Sync Pulse. The Input Sync Pulse specified in paragraph 3.1.3.4 shall be applied to pin 7.

4.2.5 115V Supply. The 115 VRM Supply shall be applied to pin 38 with pin 40 used as the AC return.

4.2.6 Intensity Measurements. Display indicator intensity measurements shall be calculated in the following manner, with no individual readings greater than 25% from the spec limit for the average.

- a. Electroluminescent Displays - intensity measurements shall be the average of six sample segments, with the exception of COMP ACTY which is to be measured and recorded as an individual segment. See paragraph 4.2.7, 4.2.14 and 4.2.16.
- b. Incandescent Displays - intensity measurements shall be the average of six sample legends at least 1/8 inch in from the illuminated legend border. See paragraphs 4.2.14 and 4.2.15.
- c. Push Switches - intensity measurements shall be the average of a single centrally located reading for each of the push switches. See paragraph 4.2.8

Display indicators shall be visually inspected for abnormal dark spots and light intensity variations.

4.2.7 Legend Illumination. Apply all inputs specified in paragraph 4.2.4. Vary the 10K ohm potentiometer from minimum to maximum resistance and verify the intensity of the segments as specified in paragraph 3.1.4. See paragraph 4.2.6.a.

4.2.4 Input Requirements. All tests shall be performed with the input requirements specified in paragraph 3.1.3 applied, when required to the pins of J9 as detailed below:

4.2.4.1 14V Supply. The 14 VDC Supply shall be applied to pin 1 with pin 8 used as the DC return.

4.2.4.2 28V Supply. The 28 VDC Supply shall be applied to pins 21 and 30 with pin 8 used as the DC return.

4.2.4.3 5V Supply. The 5 VDC Supply shall be applied to pins 62 and 64 with pins 63 and 65 used as the DC return. Current shall be measured as specified in Paragraphs 3.1.11 and 3.1.12.

4.2.4.4 Input Sync Pulse. The Input Sync Pulse specified in paragraph 3.1.3.4 shall be applied to pin 7.

4.2.5 115V Supply. The 115 VRM Supply shall be applied to pin 38 with pin 40 used as the AC return.

4.2.6 Intensity Measurements. Display indicator intensity measurements shall be calculated in the following manner, with no individual readings greater than 25% from the spec limit for the average of the electroluminescent displays and push switches.

- a. Electroluminescent Displays - intensity measurements shall be the average of six sample segments, with the exception of COMP ACTY which is to be measured and recorded as an individual segment. See paragraphs 4.2.7, 4.2.14 and 4.2.16.
- b. Incandescent Displays - intensity measurements shall be made on all legends at least 1/8 inch in from the illuminated legend border. See paragraphs 4.2.14 and 4.2.15.
- c. Push Switches - intensity measurements shall be the average of a single centrally located reading for each of the push switches. See paragraph 4.2.8.

Display indicators shall be visually inspected for abnormal dark spots and light intensity variations.

4.2.7 Legend Illumination. Apply all inputs specified in paragraph 4.2.4. Vary the 10K ohm potentiometer from minimum to maximum resistance and verify the intensity of the segments as specified in paragraph 3.1.4. See paragraph 4.2.6a.

4.1.1 Test Conditions

4.1.1.1 Environmental. The assembly shall be tested under the following ambient conditions:

- a. Temperature: $25^{\circ} \pm 10^{\circ}\text{C}$
- b. Relative Humidity: 90% max
- c. Barometric Pressure: 28 to 32 inches of Hg

4.1.1.2 Assembly Case Ground. The dynamic tests specified in paragraphs 4.2.6 and 4.2.16 shall be conducted with pins 8 and 39 of J9 connected to ground (0 VDC).

4.1.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and re-examination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.2 TESTS

4.2.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of APOLLO G&N Drawing 2003994. Particular attention shall be given to inspection for damage to surfaces, structure, and equipment, including contaminants, pin misalignment, and legibility and appearance of marking.

4.2.2 Continuity. Verify that the resistance between pin 39 of J9 and the assembly housing is in accordance with paragraph 3.1.1.

4.2.3 Insulation Resistance. Remove all lights and modules except Keyboard from assembly. Using test equipment with a test potential of 50 VDC limited to a short circuit current of 50 microamperes, measure the resistance between pin 39 of J9 and all other pins of J9 connected together. Verify that the resistance complies with that specified in paragraph 3.1.2.

4.2.8 Keyboard Illumination. Apply the voltage specified in paragraph 4.2.5, and set the 115V Supply as described in paragraph 3.1.5. Verify that the Keyboard keys are illuminated as specified in paragraph 3.1.5.

4.2.9 Keyboard Outputs. Apply all inputs specified in section 4.2.4. Depress each Keyboard key individually and verify that the outputs, monitored at the output pins, are as specified in paragraph 3.1.6.

4.2.9.1 Keyboard Loads. Each Keyboard output pin listed in Table 3-1 shall be loaded with a 20K ohm \pm 5% resistance to ground (0 VDC).

4.2.10 Incandescent Indicators. Apply all inputs specified in paragraph 4.2.4. Apply the logic input as specified in paragraph 3.1.7 and verify that all incandescent indicators are OFF.

4.2.11 Flashing Alarm Characters. Apply all inputs specified in paragraph 4.2.4. Apply the Flasher Timing Pulse as specified in paragraph 3.1.8 and verify that the alarm indicators KEY REL and OPR ERR flash in accordance with paragraph 3.1.8.

4.2.12 Flashing Noun Characters. Apply all inputs specified in paragraph 4.2.4. Apply the Flasher Timing Pulse and logic inputs specified in paragraph 3.1.9. Verify that the Noun numerical characters flash in accordance with paragraph 3.1.9.

4.2.13 Flashing Verb Characters. Apply all inputs specified in paragraph 4.2.4. Apply the Flasher Timing Pulse and logic inputs specified in paragraph 3.1.10. Verify that the Verb numerical characters flash in accordance with paragraph 3.1.10.

4.2.14 Status and Caution Indicators. Apply all inputs specified in paragraph 4.2.4. Apply logic "ones" (ref. para. 3.1.11.2) as specified in paragraph 3.1.11. Verify that the contact closures between the pins listed in Table 3-2, and the status and caution indicators are illuminated in accordance with paragraph 3.1.11.

4.2.14.1 Logic Zero Input. Apply all inputs specified in paragraph 4.2.4. Apply logic "zeros" (ref. para. 3.1.11.2) as specified in paragraph 3.1.11.1. Verify that the contact closures between the pins listed in Table 3-2 are in accordance with paragraph 3.1.11.1.

4.2.4 Input Requirements. All tests shall be performed with the input requirements specified in paragraph 3.1.3 applied, when required to the pins of J9 as detailed below:

4.2.4.1 14V Supply. The 14 VDC Supply shall be applied to pin 1 with pin 8 used as the DC return.

4.2.4.2 28V Supply. The 28 VDC Supply shall be applied to pins 21 and 30 with pin 8 used as the DC return.

4.2.4.3 5V Supply. The 5 VDC Supply shall be applied to pins 62 and 64 with pins 63 and 65 used as the DC return.

4.2.4.4 Input Sync Pulse. The Input Sync Pulse specified in paragraph 3.1.3.4 shall be applied to pin 7.

4.2.5 115V Supply. The 115 VRM Supply shall be applied to pin 38 with pin 40 used as the AC return.

4.2.6 Intensity Measurements. Display indicator intensity measurements shall be calculated in the following manner:

- a. Electroluminescent Displays - intensity measurements shall be the average of six sample locations.
- b. Incandescent Displays - intensity measurements shall be the average of six sample locations at least 1/8 inch in from the illuminated segment border.
- c. Push Switches - intensity measurements shall be the average of a single centrally located reading for each of the push switches.

Display indicators shall be visually inspected for abnormal dark spots and light intensity variations.

4.2.7 Legend Illumination. Apply all inputs specified in paragraph 4.2.4. Vary the 10K ohm potentiometer from minimum to maximum resistance and verify that the brightness of the legends shall be as specified in paragraph 3.1.4.

APOLLO G&N Specification
PS 2003994
Rev C

4.2.14.2 Logic Input. Only one logic input shall be applied at any one time.

4.2.15 Isolated Relay Indicators. Apply all inputs specified in paragraph 4.2.2. Apply RLYWD 12 (ref. para. 3.1.12.3) and logic "ones" (ref. para. 3.1.12.2) as specified in paragraph 3.1.12. Verify that the contact closures between the pins listed in Table 3-3, and the isolated relay indicators are illuminated in accordance with paragraph 3.1.12.

4.2.15.1 Logic Zero Input. Apply all inputs specified in paragraph 4.2.4. Apply logic "zeros" (ref. para. 3.1.12.3) as specified in paragraph 3.1.12.1. Verify that the contact closures between the pins listed in Table 3-3 are in accordance with paragraph 3.1.12.1.

4.2.15.2 Logic Inputs. Only one logic input shall be applied at any one time.

4.2.16 Numerical Electroluminescent Indicators. Apply all inputs specified in section 4.2.4. Set the 10K ohm potentiometer for maximum resistance. Apply the appropriate RLYWD and RLYBT combinations specified in Table 3-4 and 3-5, and verify that the specified numerical electroluminescent indicators are illuminated in accordance with paragraph 3.1.13.

4.2.16.1 Apply all inputs specified in paragraph 4.2.4. Set the 10K ohm potentiometer to minimum resistance. Program numerical electroluminescent indicators as specified in paragraph 3.1.13.1. Verify that the numerical electroluminescent indicators shall be OFF.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND 1002214. The assembly shall be pressurized to .7 to 1.5 psig.

6. NOTES: None.

4.2.14.2 Logic Input. Only one logic input shall be applied at any one time.

4.2.15 Isolated Relay Indicators. Apply all inputs specified in paragraph 4.2.2. Apply RLYWD 12 (ref. para. 3.1.12.3) and logic "ones" (ref. para. 3.1.12.2) as specified in paragraph 3.1.12. Verify that the contact closures between the pins listed in Table 3-3, and the isolated relay indicators are illuminated in accordance with paragraph 3.1.12. See paragraph 4.2.6b.

4.2.15.1 Logic Zero Input. Apply all inputs specified in paragraph 4.2.4. Apply logic "zeros" (ref. para. 3.1.12.3) as specified in paragraph 3.1.12.1. Verify that the contact closures between the pins listed in Table 3-3 are in accordance with paragraph 3.1.12.1.

4.2.15.2 Logic Inputs. Only one logic input shall be applied at any one time.

4.2.16 Numerical Electroluminescent Indicators. Apply all inputs specified in section 4.2.4. Set the 10K ohm potentiometer for maximum resistance. Apply the appropriate RLYWD and RLYBT combinations specified in Table 3-4 and 3-5, and verify that the specified numerical electroluminescent indicators are illuminated in accordance with paragraph 3.1.13. See paragraph 4.2.6a.

4.2.16.1 Apply all inputs specified in paragraph 4.2.4. Set the 10K ohm potentiometer to minimum resistance. Program numerical electroluminescent indicators as specified in paragraph 3.1.13.1. Verify that the numerical electroluminescent indicators shall be OFF.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification MD 1002214. The assembly shall be pressurized to .7 to 1.5 psig.

6. NOTES: None.

4.3.1.3 Low Marginal Voltages/High Temperature. Set the input supply voltage and the ambient temperature to the limits specified in paragraph 3.1.14.3. Verify that the module shall perform in accordance with paragraph 3.1.14.3.

4.3.1.4 High Marginal Voltages/High Temperature. Set the input supply voltage and the ambient temperature to the limits specified in paragraph 3.1.14.4. Verify that the module shall perform in accordance with paragraph 3.1.14.4.

The DSKY shall be subjected to the designated temperatures for one-half hour prior to performing any electrical tests.

This test may be performed with a set of test display indicators. Original assembly indicators will be reinstalled in the DSKY after completion of this test.

4.3.2 Vibration. Subject the assembly to the vibration specified in paragraph 3.1.15. Verify that the assembly performs in accordance with paragraph 3.1.15.

4.3.2.1 Switch Chatter. Verify that there is no keyboard switch chatter as specified in paragraph 3.1.15.1.

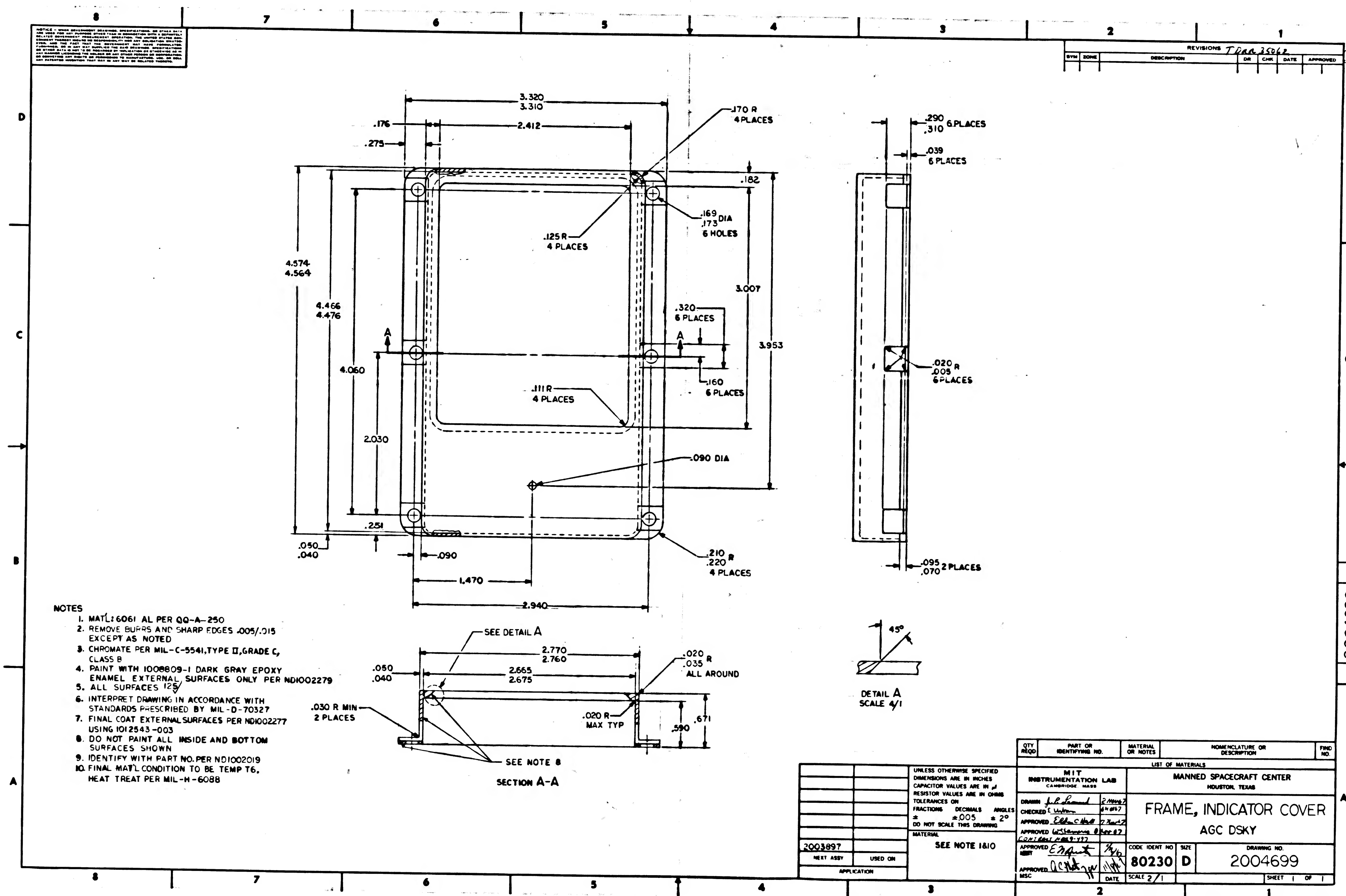
4.3.3 Leak Rate. Pressurize the assembly to 2 psig at $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$ using the mixture specified in paragraph 3.1.16. After pressurization place assembly in a vacuum, and verify that the leak rate does not exceed that specified in paragraph 3.1.16 when measured at $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$.

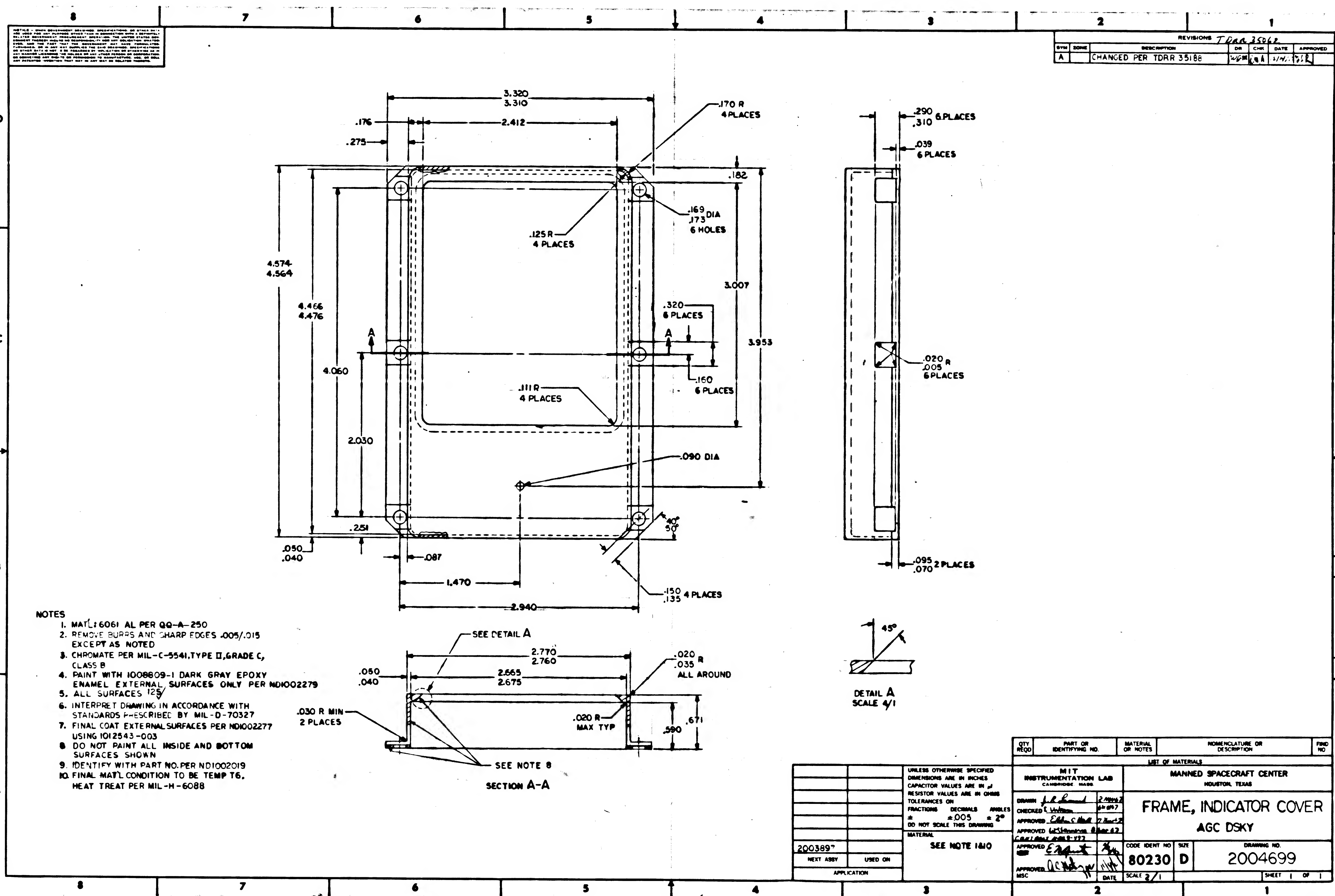
4.3.4 Weight. Weigh the assembly to the nearest .01 pound. Verify that the weight is in accordance with paragraph 3.2.2.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND 1002214. The assembly shall be pressurized to .7 to 1.5 psig.

6. NOTES: None.





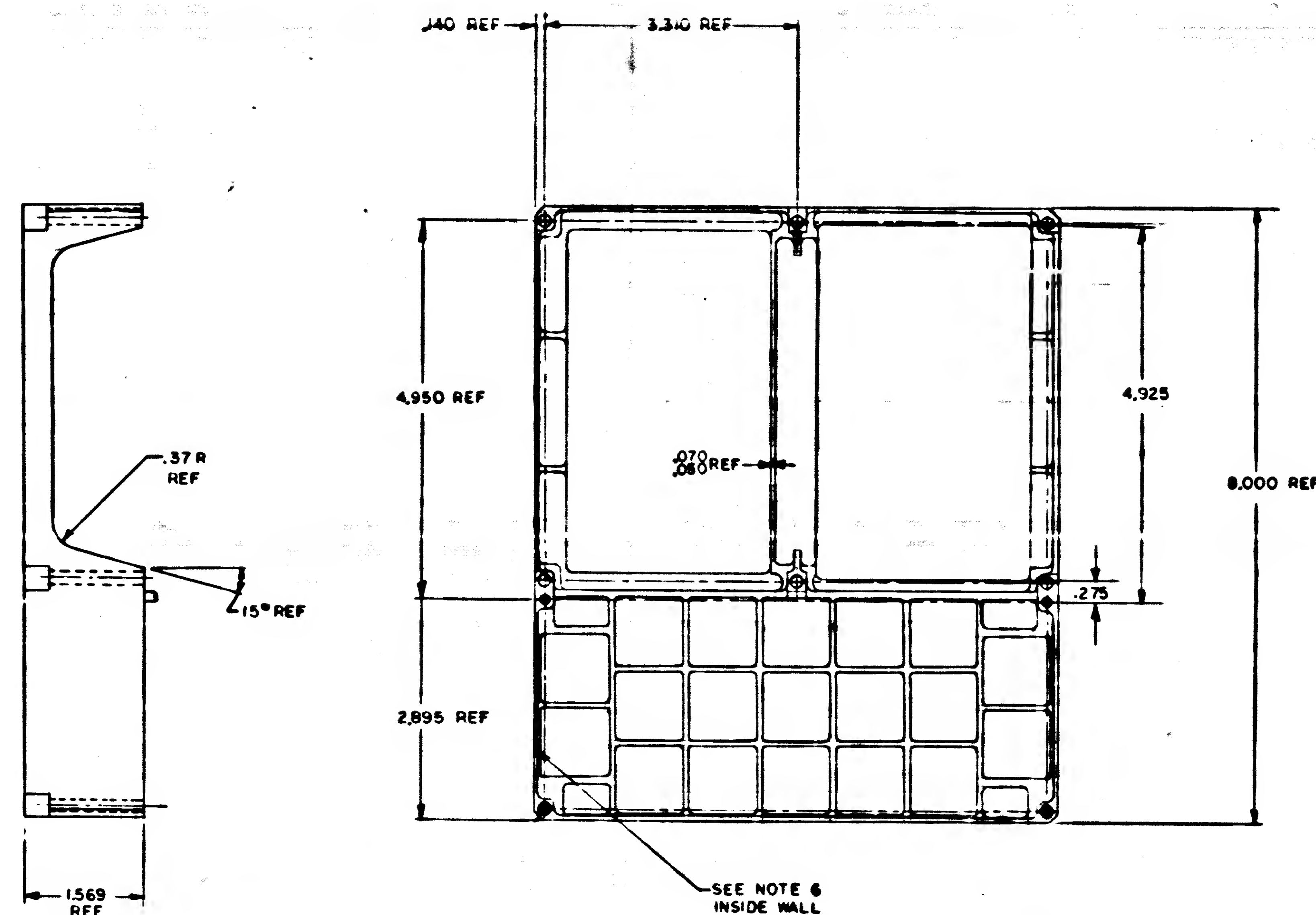
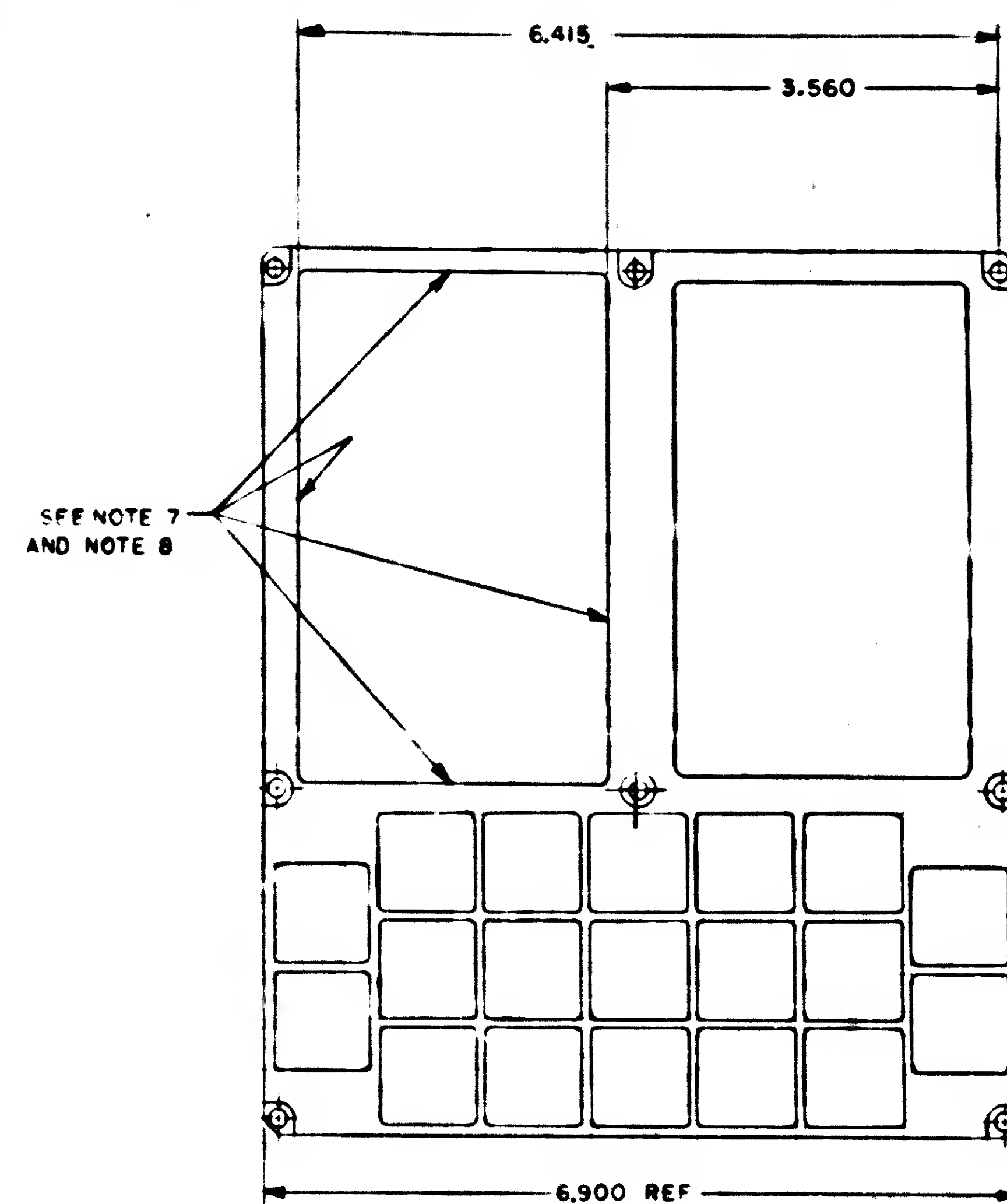
NOTES

1. MAT'L: 6061 AL PER QQ-A-250
2. REMOVE BURRS AND SHARP EDGES .005/.015 EXCEPT AS NOTED
3. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS B
4. PAINT WITH 1008809-1 DARK GRAY EPOXY ENAMEL EXTERNAL SURFACES ONLY PER ND1002279
5. ALL SURFACES 125
6. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS F-DESCRIBED BY MIL-D-70327
7. FINAL COAT EXTERNAL SURFACES PER ND1002277 USING 1012543-003
8. DO NOT PAINT ALL INSIDE AND BOTTOM SURFACES SHOWN
9. IDENTIFY WITH PART NO. PER ND1002019
10. FINAL MAT'L CONDITION TO BE TEMP T6, HEAT TREAT PER MIL-H-6088

SECTION A-A

DETAIL A
SCALE 4/1

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	PRD NO
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN: J. R. [Signature] 2/20/62		FRAME, INDICATOR COVER		
CHECKED: L. [Signature] 2/20/62		AGC DSKY		
APPROVED: E. [Signature] 2/20/62		DRAWING NO. 2004699		
APPROVED: G. [Signature] 2/22/62		CODE IDENT NO. 80230 D		
APPROVED: [Signature]		DATE SCALE 2/1 SHEET 1 OF 1		

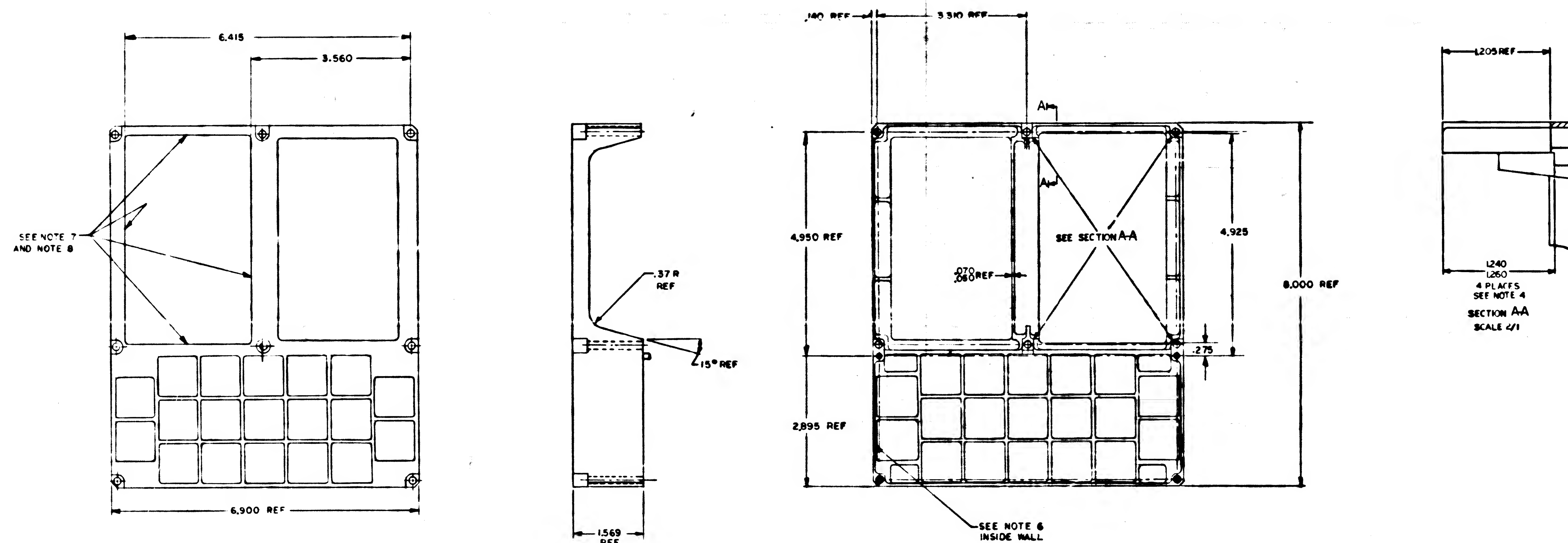


NOTES

1. MATL MAKE FROM 2004929-021
2. REMOVE BURRS AND SHARP EDGES .005/.015
3. ALL SURFACES 125
4. TOUCH UP ALL EXPOSED MACHINED SURFACES PER ND1002040, DO NOT EPOXY COAT
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADI TO BE .09R MAX.
6. IDENTIFY WITH PART NO. PER ND1002049 APPROXIMATELY WHERE SHOWN
7. PAINT INDICATED SURFACES WITH 1008809-1, DARK GRAY EPOXY ENAMEL PER 1002279
8. FINAL COAT INDICATED SURFACES PER ND1002277 USING 1012543-003
9. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOBENCLATURE OR DESCRIPTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN OHMS RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ± 2° DO NOT SCALE THIS DRAWING		INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS COVER, FRONT AGC DSKY	
2003985		APPROVED [Signature]	DATE 12/1/73
2003950		APPROVED [Signature]	DATE 12/1/73
2003934		APPROVED [Signature]	DATE 12/1/73
NEXT ASSY USED ON APPLICATION		SEE NOTE 1	CODE IDENT NO SIZE 80230 E
			DRAWING NO. 2004739
			SHEET 1 OF 1

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1		CHANGED PER TDR 3517	



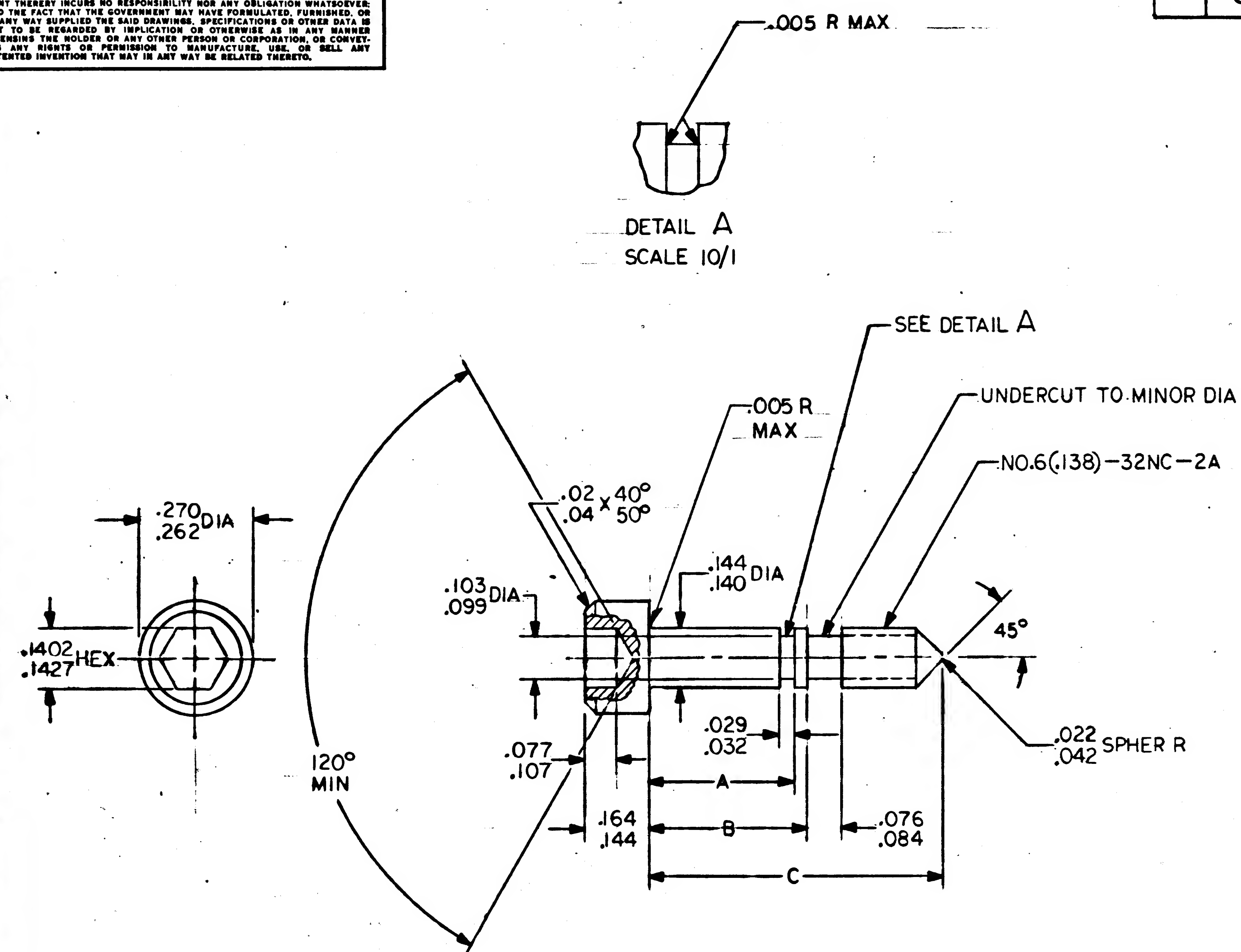
- NOTES
1. MATE MAKE FROM 2004929-021
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. ALL SURFACES 125
 4. TOUCH UP ALL EXPOSED MACHINED SURFACES PER ND1002040, DO NOT EPOXY COAT
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .039 MAX.
 6. IDENTIFY WITH PART NO. PER ND1002019 APPROXIMATELY WHERE SHOWN
 7. PAINT INDICATED SURFACES WITH 1008809-1, DARK GRAY EPOXY ENAMEL PER 1002279
 8. FINAL COAT INDICATED SURFACES PER ND1002277 USING 1012543-003
 9. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	SIGNATURE OR DESCRIPTION	FILE NO.
<div> <div> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS PERCENTS .25 .005 .005 .25 DO NOT SCALE THIS DRAWING </div> <div> MIT INSTRUMENTATION LAB DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DATE: <i>[Date]</i> </div> <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS COVER, FRONT AGC DSKY CODE IDENT NO: 80230 E DRAWING NO: 2004739 SHEET 1 OF 1 </div> </div>				

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

2004932

REVISIONS 20273				
SYM	ZONE	DESCRIPTION	DR	CHK



NOTES

1. MATL: 410 CRES, CLASS 410, COND. A
PER QQ-S-763 (HEAD TO BE COLD FORMED)
2. REMOVE BURRS AND SHARP EDGES .005 MAX
3. PASSIVATE PER MIL-F-14072,
FINISH E300, TYPE I
4. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327
5. HEAT TREAT TO ROCKWELL RC36-43
6. CONCENTRICITY: ALL DIAMETERS MUST BE
WITHIN .005 T.I.R.
7. IDENTIFY WITH DRAWING NO. AND REVISION
PER ND1002019

DASH NO.	DIM. A	DIM. B	DIM. C
2004932-001	.336	.378	.755
	.334	.374	.765
2004932-002	.211	.253	.580
	.209	.249	.570

2003909		
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 \pm \pm $\pm 1^\circ$
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 1

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>J.P. Leland</i>	3/11/65	SCREW, JACKING AGC DSKY		
CHECKED <i>J. Leger</i>	2/24/65			
APPROVED <i>A. Underhill</i>	1/26/65			
APPROVED <i>Edison Chell</i>	2/1/65			
APPROVED MIT <i>W. Kuyper</i>	2/24/65	CODE IDENT NO. 80230	SIZE C	DRAWING NO. 2004932
APPROVED MSC <i>Michael</i>	6/24/65	DATE	SCALE 4/1	SHEET 1 OF 1

1. GENERAL:

- ### 1. GENERAL:

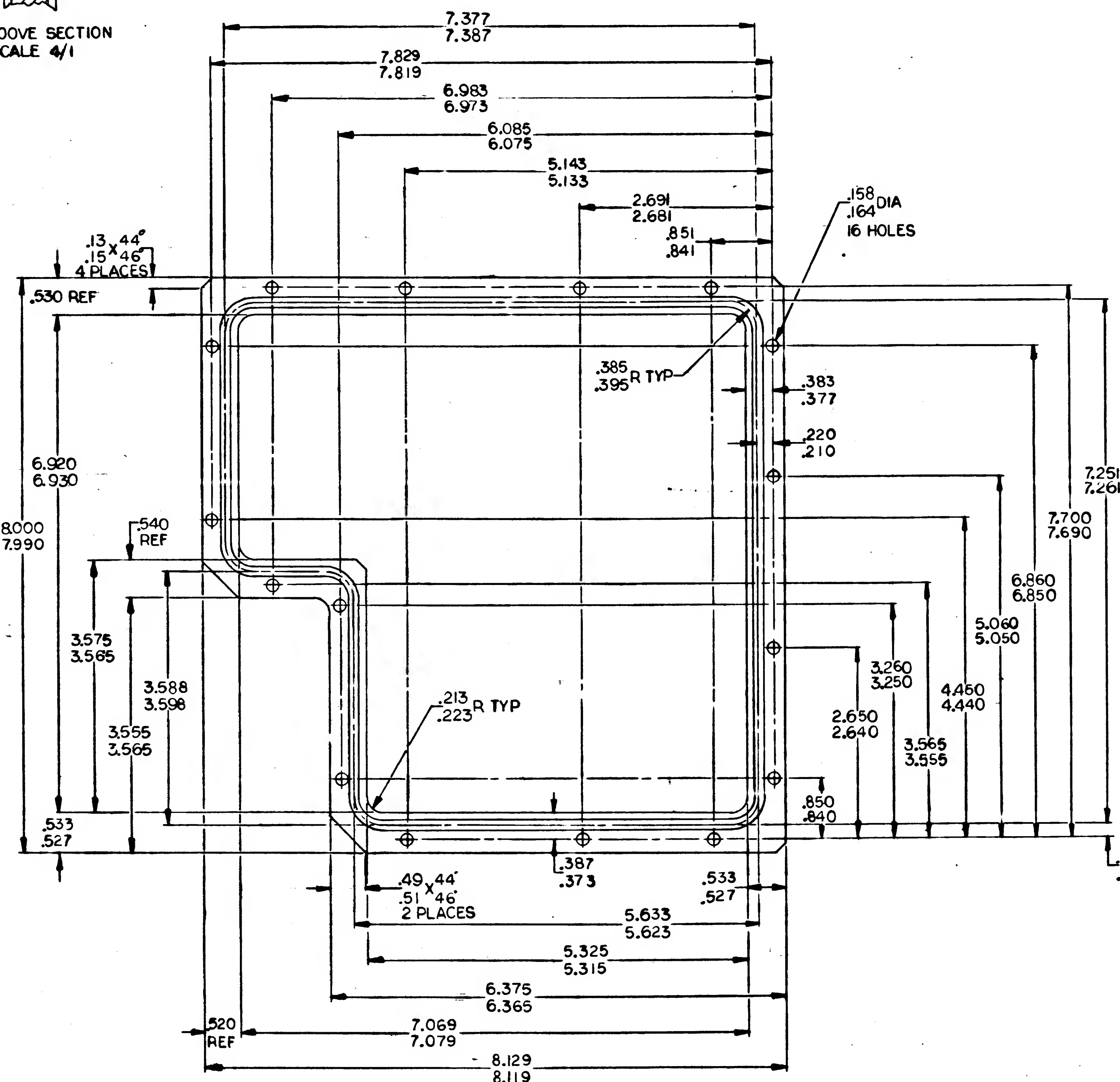
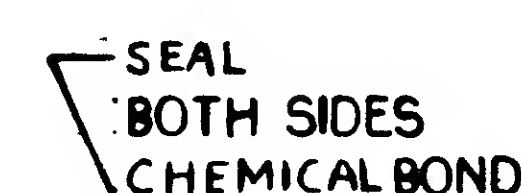
- ## 2. ACCEPTANCE & INSPECTION (100%)

- ### 3. DESIGN:

- A. STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS (77 \pm 5°F AND 50% RH).
- B. CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.
 - (1) MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, BLACK ANODIZED, PER MIL-A-8625, TYPE II, COLOR BLACK.
 - (2) MATERIAL, RUBBER GASKET: BUTYL TYPE: RUBBER PER AMS-9230
 - (3) HARDNESS, RUBBER: 70 \pm 5 SHORE A DUREMETER. (ASTM D-705)
- C. SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 10^{-8} ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 2. ATMOSPHERES.

MARK PER NOTE I.C.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO. 1002034 FOR THIS DRAWING



NOTES

[illegible]

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NO 1015404, CLASS 2.
- PART MARKING: UNITS SHALL BE MARKED PER NO 1002019, ON THE SURFACE(S) INDICATED WITH THE MANUFACTURER'S SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH NO 1002215, CLASS 1, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING PER NO 1002215.

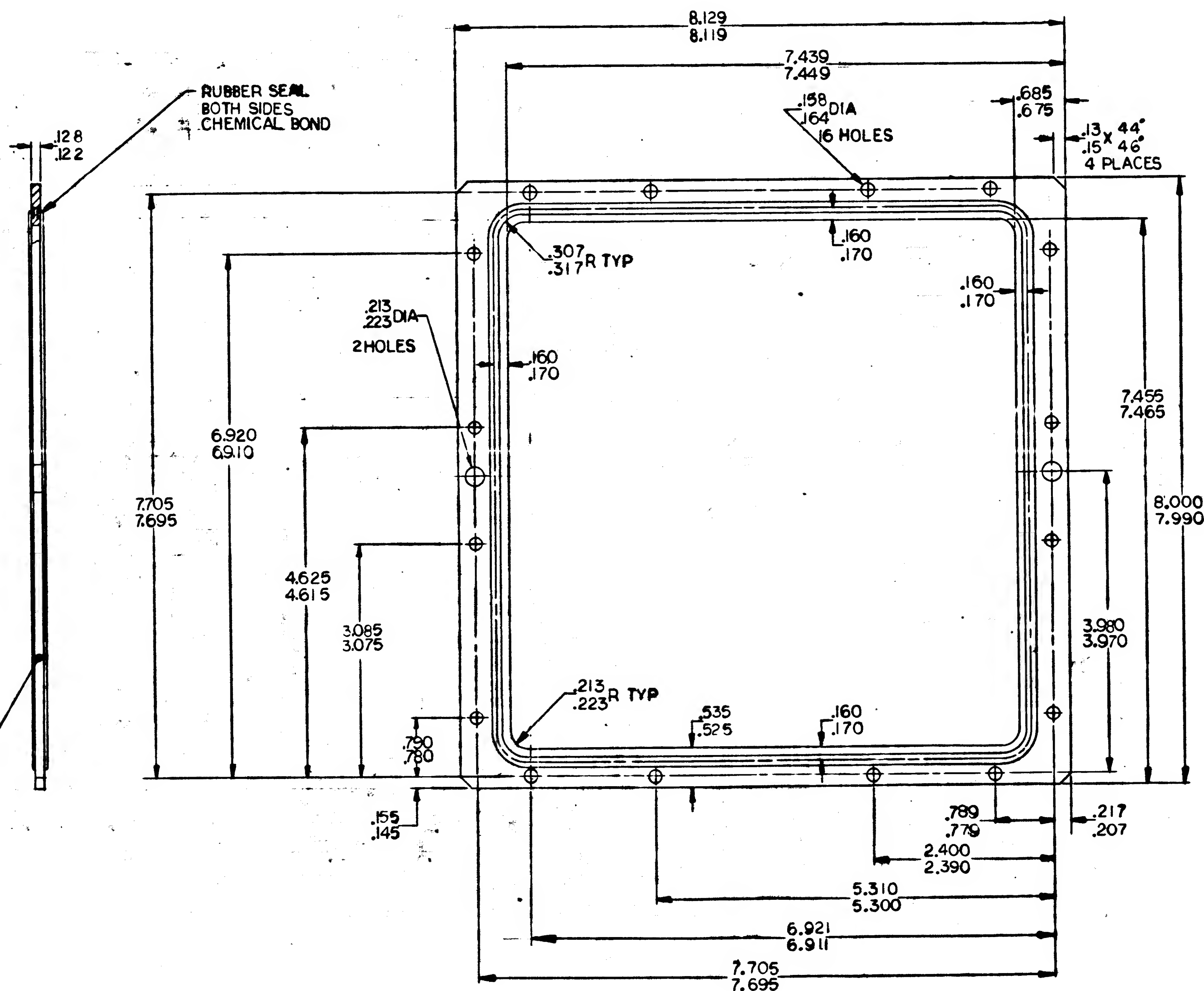
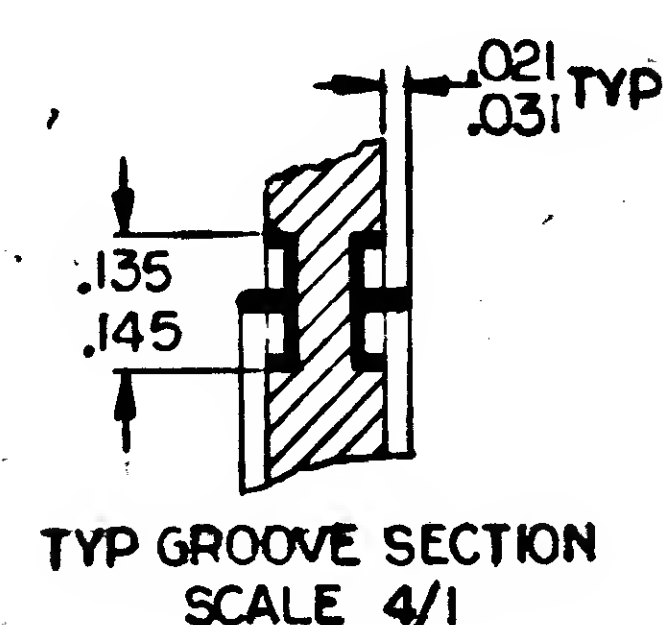
2. ACCEPTANCE & INSPECTION (1008)

- MECHANICAL PROPERTIES:
 - DIMENSIONS: AS DELINEATED HEREIN.
 - MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
 - COMPRESSION: RUBBER SEAL PORTION SHALL BE CAPABLE OF BEING COMPRESSED TO THE LEVEL OF THE PLATE WITHOUT DAMAGE.
 - SURFACE ROUGHNESS 125.
- VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION:
 - CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
 - CERTIFICATE OF COMPLIANCE WITH NO 1015404, CLASS 2.

3. DESIGN:

- STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS (77° ± 5°F AND 50% RH).
- CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.
 - MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, BLACK ANODIZED PER MIL-A-8625, TYPE II, COLOR BLACK.
 - MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-3230A.
 - HARDNESS, RUBBER: 70 ± 5 SHORE A DUROMETER (ASTM D-795).
- SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 10⁻⁶ IN CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 12 ATMOSPHERES.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING.



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS	
		INSTRUMENTATION LAB CAMBRIDGE, MASS.	
		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		GASKET, BONDED, RUBBER, RETAINED	
		SPECIFICATION CONTROL DRAWING	
		CODE IDENT NO. 80230	
		SCALE 1/1	
		WT	
		SHEET	
		OF	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS	
		INSTRUMENTATION LAB CAMBRIDGE, MASS.	
		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		GASKET, BONDED, RUBBER, RETAINED	
		SPECIFICATION CONTROL DRAWING	
		CODE IDENT NO. 80230	
		SCALE 1/1	
		WT	
		SHEET	
		OF	

1. GENERAL:

1. GENERAL:
- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS DESCRIBED BY MIL-B-70327.
 - B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN MIL 1015404, CLASS 3
 - C. PART MARKING: IDENTIFY PER MIL 1002019.
THE SURFACE(S) INDICATED: WITH THE MANUFACTURER'S SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
 - D. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MIL 1002215, CLASS I, CODE 3.
 - (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHOD(S) OF MARKING PER MIL 1002215.

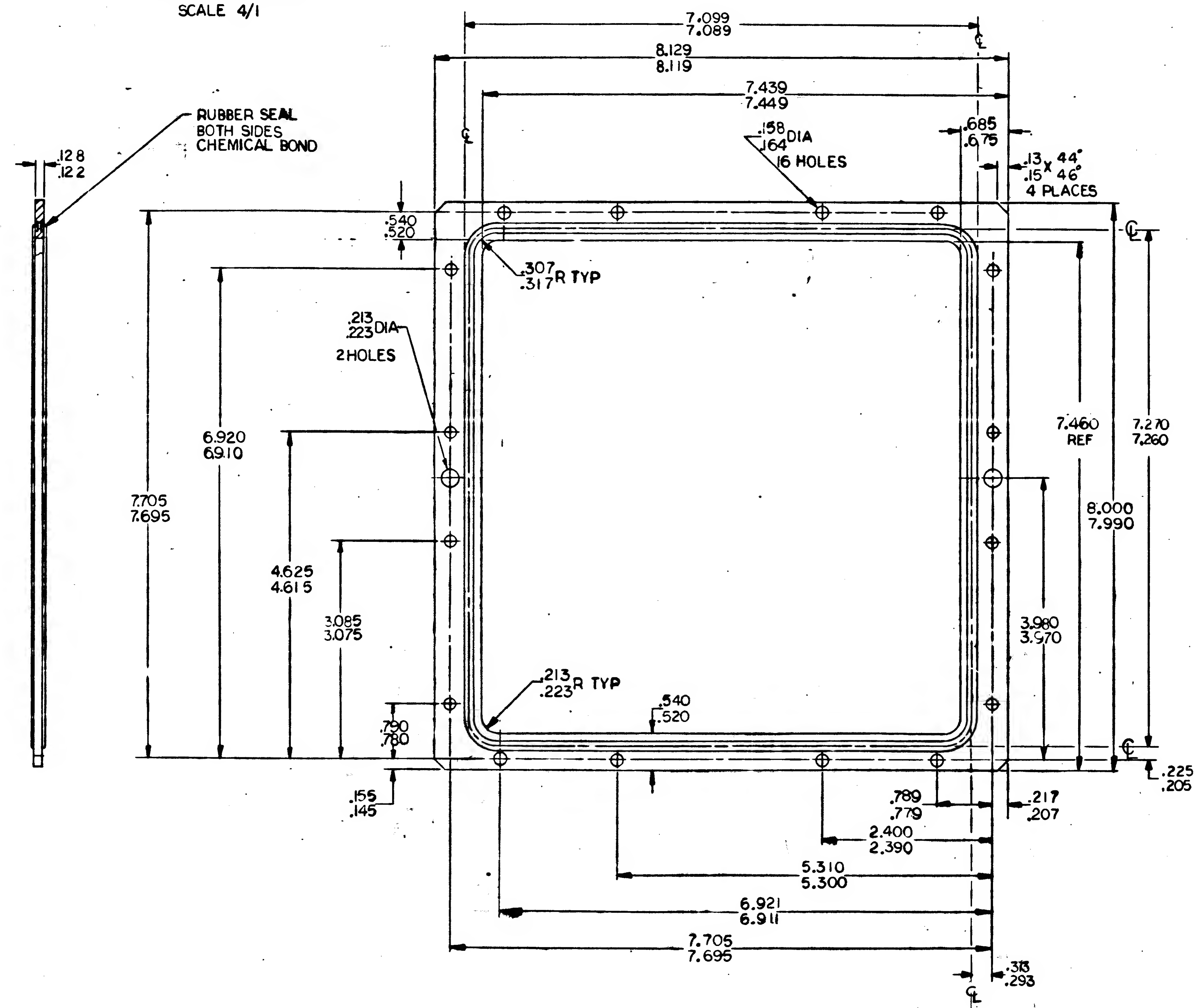
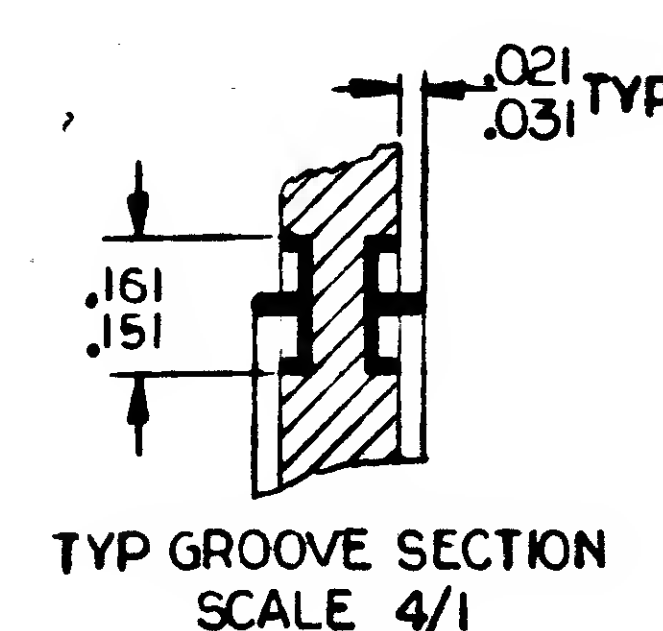
- ## 2. ACCEPTANCE & INSPECTION (100%)

- A. MECHANICAL PROPERTIES:
- (1) DIMENSIONS: AS DELINEATED HEREIN.
 - (2) MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
 - (3) COMPRESSION: RUBBER SEAL PORTION SHALL BE CAPABLE OF BEING COMPRESSED TO THE LEVEL OF THE PLATE WITHOUT DAMAGE.
 - (4) SURFACE ROUGHNESS $125 \sqrt{\text{PER MIL-STD-10}}$
- B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
- (1) CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
 - (2) CERTIFICATE OF COMPLIANCE WITH MD 1015404, CLASS 3

- ### 3. DESIGN:

- A. STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS ($77^{\circ} \pm 5^{\circ}\text{F}$ AND 50% RH).
- B. CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.
- (1) MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, CHROMATE FILM PER MIL-C-5501, TYPE II, CLASS 3.
- (2) MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-5230A.
- (3) HARDNESS, RUBBER: 70 ± 5 SHORE A DUROMETER (ASTM D-705).
- C. SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 2×10^{-6} ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 12 ATMOSPHERES AND A TEMPERATURE OF -10°C TO 82°C .

PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200
 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300
 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400
 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500
 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600
 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700
 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800
 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900
 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000
 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 103

▽	1006350
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE CLASS A PER TDRR 20100	6-15-68	
A	REVISED PER TDRR 22129	9/1/68	EAL <i>[Signature]</i>

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
		LIST OF MATERIALS							
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MATERIAL		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		TOLERANCES ON DECIMALS DECIMALS ANGLES		DRAWN <i>Wing</i> CHECKED <i>Wing</i> DATE <i>4/1/61</i>		GASKET, BONDED, RUBBER, RETAINED SPECIFICATION CONTROL DRAWING			
		.XXX .XXX .XXX		CHECKED <i>Wing</i> DATE <i>4/1/61</i>					
		* * *		APPROVAL <i>Wing</i>					
		DO NOT SCALE DRAWING		APPROVAL <i>Wing</i>					
		MATERIAL		APPROVAL <i>Wing</i>		CODE IDENT NO. SIZE		NASA DRAWING NO.	
				NASA APPROVAL <i>Wing</i> 4/1/61		80230		1006350	
				MIT APPROVAL <i>Wing</i> 4/1/61		SCALE 1/1		SHEET 1 OF 1	
				MIT APPROVAL					
NEXT ASSY USED ON									
APPLICATION									

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN MIL-Q-9858.
- MARKING: UNITS SHALL BE MARKED PER ND 1002019 WITH THE NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER AND DASH NUMBER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215 CLASS I, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND METHODS OF MARKING AS SPECIFIED IN ND 1002215.

- WHEN SUBJECTED TO THE ENVIRONMENTAL REQUIREMENTS OF ND 1002056, UNITS SHALL NOT EXPERIENCE MORE THAN 20% CHANGE OF PHOTOMETRIC PARAMETERS, AND SHALL EXHIBIT NO TOXIC OUTGASSING.

2. ACCEPTANCE AND INSPECTION: SAMPLE

- MARKING AND PREPARATION FOR DELIVERY AS SPECIFIED ABOVE AND IN TABLE I.
- DIMENSIONS AND TOLERANCES AS SPECIFIED HEREIN.
- LIGHT DISTRIBUTION THROUGH MARKING: 33% MINIMUM LIGHT TRANSMISSION WHEN BACKLIGHTED WITH AN EL LAMP PER SCD 1006340 LOCATED DIRECTLY BEHIND THE BACK SURFACE OF THE CAP.
- VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
 - A CERTIFICATE OF COMPLIANCE WITH THE MATERIAL REQUIREMENTS SPECIFIED HEREIN.
 - A CERTIFICATE OF COMPLIANCE WITH MIL-Q-9858.

3. DESIGN:

- MATERIAL: ACRYLIC PER MIL-P-5425, FINISH A.
- FINISH: BACKGROUND SHALL BE TT-E-527 BLACK LUSTERLESS ENAMEL COLOR NO. 37038 PER FED-STD-595. ENGRAVED CHARACTERS, NON-ILLUMINATED, TO APPEAR WHITE COLOR NO. 37075 PER FED-STD-595.
- MARKINGS PER TABLE I SHALL BE ENGRAVED THROUGH BLACK PAINT ONLY PER ND 1002019 AND ND 1002122 TYPE II, CLASS 1. THIS NOTE ONLY APPLIES IF ENGRAVING IS USED.
- COLOR: WHEN BACKLIGHTED PER 2.C., COLOR SHALL BE WHITE, WITH COLOR COORDINATES $X = .330 \pm .030$, $Y = .330 \pm .030$ PER CIE CHROMACITY DIAGRAM.

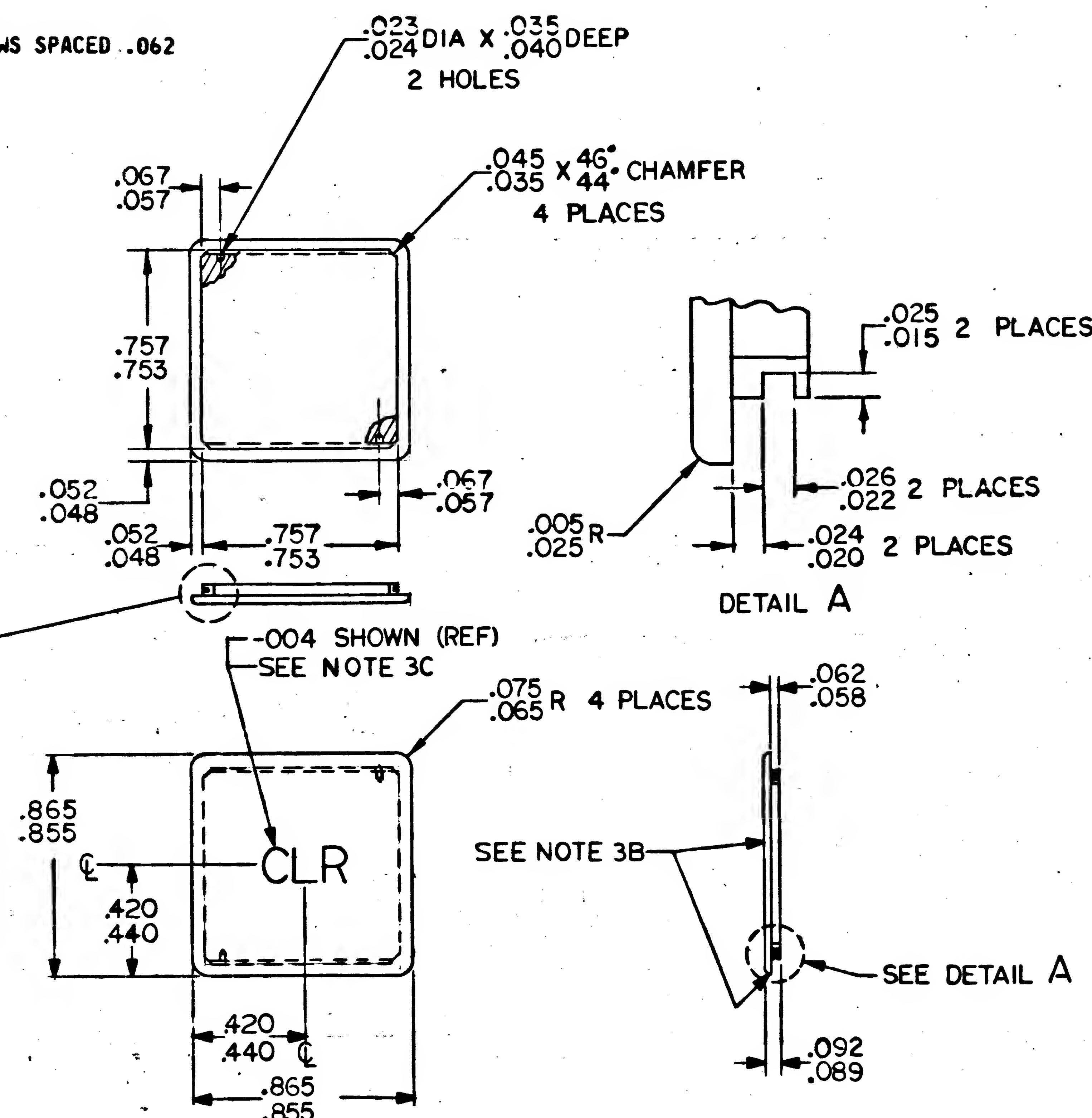
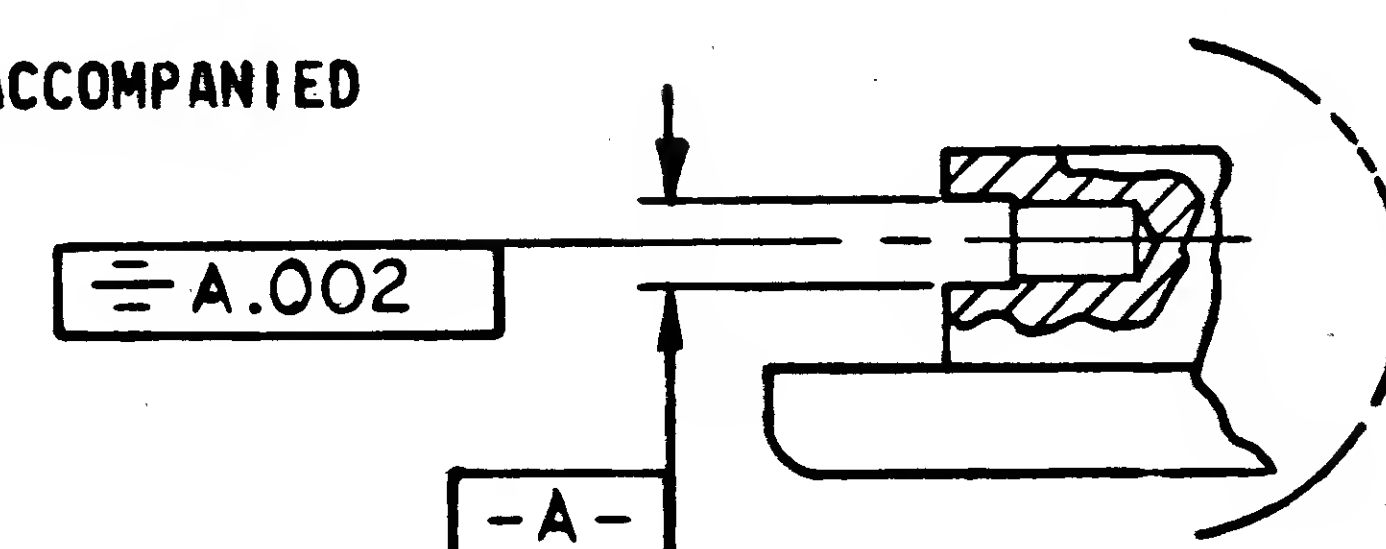
- GLOSS: SHALL NOT EXCEED 5 UNITS ON EXTERIOR SURFACES, AS MEASURED PER ASTM METHOD D523.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

TABLE I

DASH NO.	MARKING	HEIGHT
-001	VERB	.125
-002	NOUN	
-003	ENTR	
-004	CLR	
-005	STBY	
-006	KEY REL	
-007	RSET	.125
-008	+	.250
-009	-	
-010	0	
-011	1	
-012	2	
-013	3	
-014	4	
-015	5	
-016	6	
-017	7	
-018	8	
-019	9	.250

2 ROWS SPACED .062



QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND. NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>J. D. [Signature]</i> 10/15/65		CAP, ELECTRICAL, ENGRAVED		
CHECKED <i>[Signature]</i> 10/15/65		SPECIFICATION CONTROL DRAWING		
APPROVED <i>[Signature]</i>				
APPROVED <i>[Signature]</i>				
APPROVED MIT <i>[Signature]</i>		CODE IDENT NO. 80230	SIZE C	DRAWING NO. 1006353
NOT REQUIRED PER LETTER MSO-ISA PP-65-512		DATE	SCALE NONE	SHEET 1 OF 1

SEE NOTE

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN MIL-Q-9858.
- MARKING: UNITS SHALL BE MARKED PER ND 1002019 WITH THE NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER AND DASH NUMBER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215 CLASS I, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND METHODS OF MARKING AS SPECIFIED IN ND 1002215.
- WHEN SUBJECTED TO THE ENVIRONMENTAL REQUIREMENTS OF ND 1002056, UNITS SHALL NOT EXPERIENCE MORE THAN 20% CHANGE OF PHOTOMETRIC PARAMETERS, AND SHALL EXHIBIT NO TOXIC OUTGASSING.

2. ACCEPTANCE AND INSPECTION: SAMPLE

- MARKING AND PREPARATION FOR DELIVERY AS SPECIFIED ABOVE AND IN TABLE I.
- DIMENSIONS AND TOLERANCES AS SPECIFIED HEREIN.
- LIGHT DISTRIBUTION THROUGH MARKING: 33% MINIMUM LIGHT TRANSMISSION WHEN BACKLIGHTED WITH AN EL LAMP PER SCD 1006340 LOCATED DIRECTLY BEHIND THE BACK SURFACE OF THE CAP.
- VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
 - A CERTIFICATE OF COMPLIANCE WITH THE MATERIAL REQUIREMENTS SPECIFIED HEREIN.
 - A CERTIFICATE OF COMPLIANCE WITH MIL-Q-9858.

3. DESIGN:

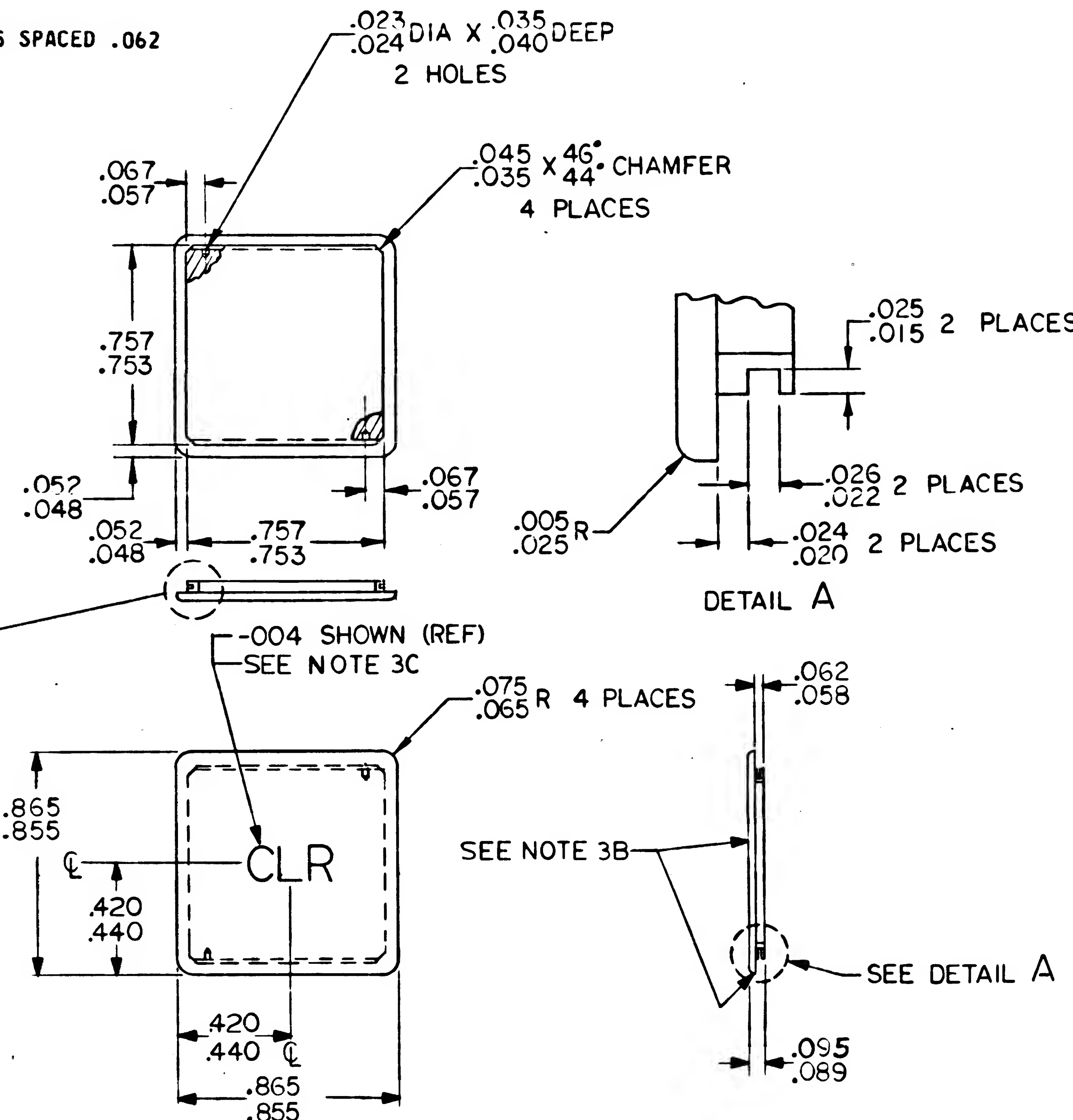
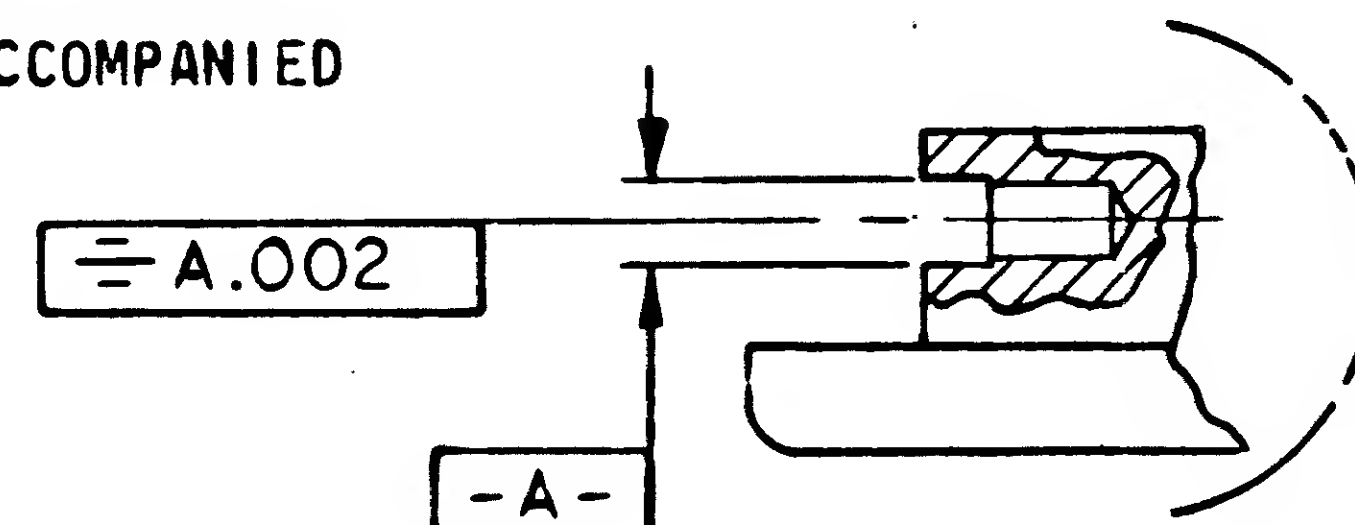
- MATERIAL: ACRYLIC PER MIL-P-5425, FINISH A.
- FINISH: BACKGROUND SHALL BE TT-E-527 BLACK LUSTERLESS ENAMEL OR EPOXY COLOR NO. 37038 PER FED-STD-595. CHARACTERS, NON-ILLUMINATED, TO APPEAR WHITE COLOR NO. 37875 PER FED-STD-595.
- MARKINGS: PER TABLE 1 SHALL BE GORTON NORMAL WITH
 - PROPORTIONS PER ND 1002122 TYPE II, CLASS 1 EXCEPT AS NOTED:
 - CHARACTER HEIGHT TO BE MEASURED AS OVERALL HEIGHT.
 - LINE STROKE WIDTH TO BE .030 FOR .250 HIGH CHARACTERS.
 - LINE STROKE WIDTH TO BE .022 FOR .125 HIGH CHARACTERS.
 - FUTURA DEMIBOLD MARKINGS PER ND 1002122 SHALL ALSO BE ACCEPTABLE. THESE SHALL BE MODIFIED TO HAVE STROKE WIDTHS AS IN 3C1.
- COLOR: WHEN BACKLIGHTED PER 2.C., COLOR SHALL BE WHITE, WITH COLOR COORDINATES $X = .330 \pm .030$, $Y = .330 \pm .030$, PER CIE CHROMACITY DIAGRAM.
- CONTRAST: WHITE COLOR IN 3B MAY BE REDUCED IN SATURATION PROVIDED A MINIMUM CONTRAST OF 5 UNITS BETWEEN BLACK BACKGROUND AND UNLIGHTED CHARACTER WHEN MEASURED IN ACCORDANCE WITH MIL-P-7788. FOR CONTRAST MEASUREMENT THE CAP MAY BE BACKED WITH AN EL LAMP PER SCD 1006340 SPACED 0.2 INCHES AWAY.
- GLOSS: SHALL NOT EXCEED 5 UNITS ON EXTERIOR SURFACES, AS MEASURED PER ASTM METHOD D523.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

TABLE I

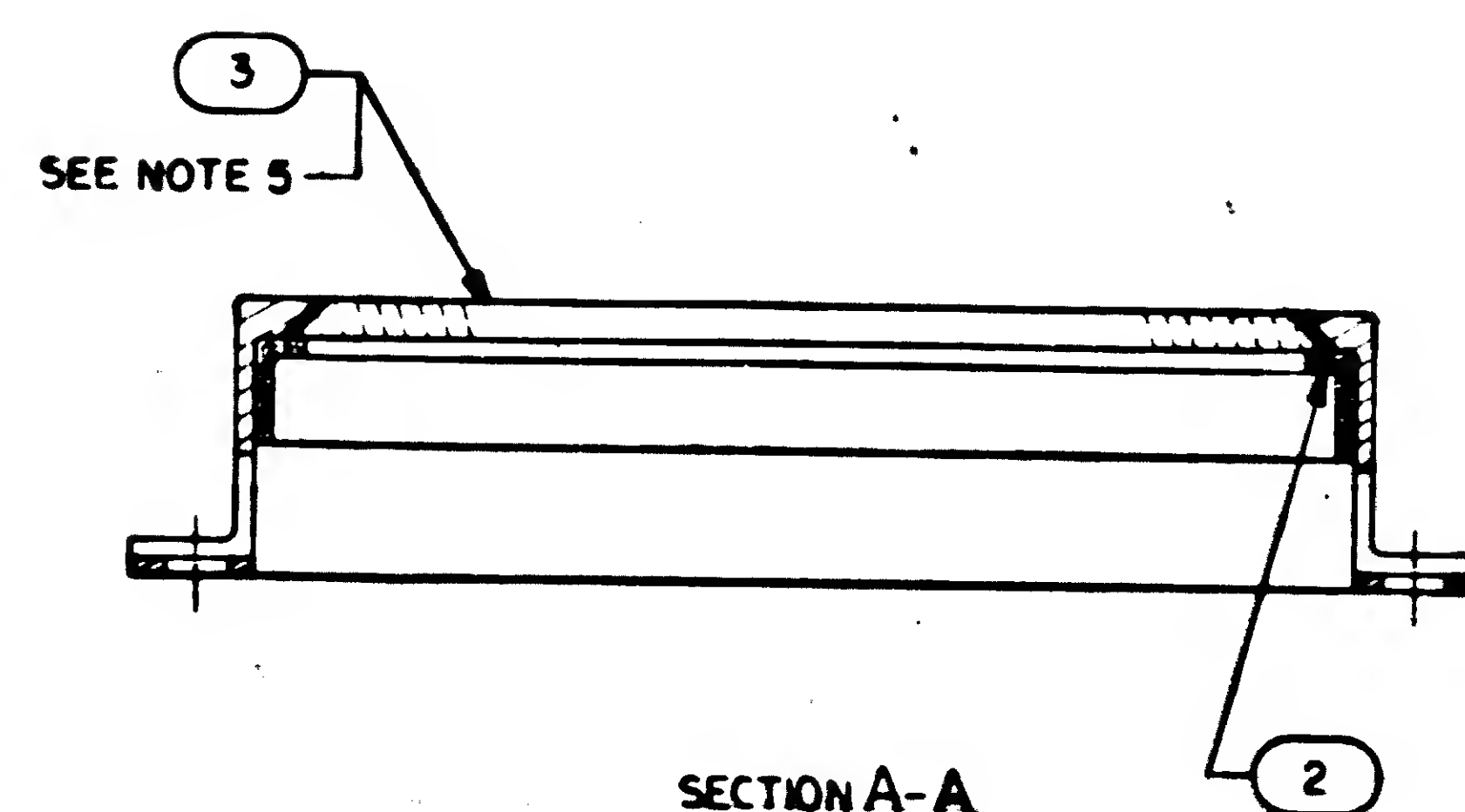
DASH NO.	MARKING	HEIGHT
-001	VERB	.125
-002	NOUN	
-003	ENTR	
-004	CLR	
-005	STBY	
-006	KEY REL	
-007	RSET	.125
-008	+	.250
-009	-	
-010	0	
-011	1	
-012	2	
-013	3	
-014	4	
-015	5	
-016	6	
-017	7	
-018	8	
-019	9	.250

2 ROWS SPACED .062



QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	2. Doty	10/15/65	CAP, ELECTRICAL, ENGRAVED	
CHECKED	Elm C Hall	10/15/65	SPECIFICATION CONTROL DRAWING	
APPROVED	Elm C Hall	10/15/65		
APPROVED	W. J. Hall	10/15/65		
APPROVED	MSC	10/15/65		
CODE IDENT NO.		SIZE	DRAWING NO.	
80230		C	1006353	
SCALE		NONE	SHEET 1 OF 1	

SEE NOTE



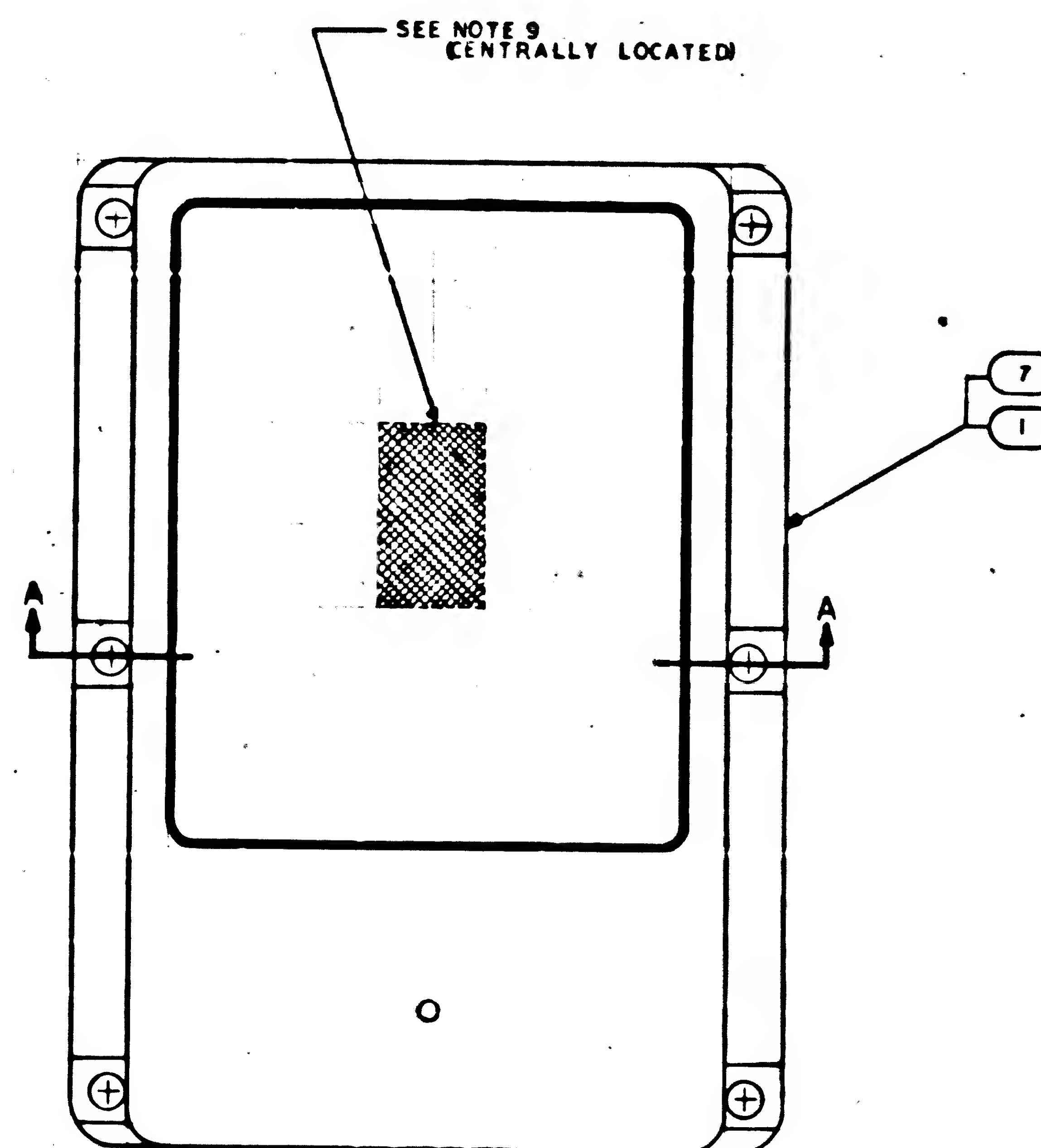
- NOTES:
1. INT: PPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESHRED BY MIL-D-70327
 2. IDENTIFY WITH PART NO. PER
NDICG2019
 3. BOND FIND NO.3 TO FIND NO.1 AS INDICATED USING
FIND NO.4. CURE AT ROOM TEMPERATURE FOR
24 HOURS MIN
 4. BOND FIND NO.2 TO FIND NO.1 AS INDICATED USING
FIND NO.5. CURE AT ROOM TEMPERATURE FOR
24 HOURS MIN
 5. SURFACE OF FIND NO.3 TO BE FLUSH TO .010 BELOW
FACE SURFACE OF NO.1

A R	1006341		ADHESIVE SEALING	5
A R	1006338-002		ADHESIVE, SILICONE	4
I	2004698		PANEL, INDICATOR	3
I	200474		GASKET, INDICATOR COVER	2
I	2004699		FRAME, INDICATOR COVER	1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FINO NO.
011		LIST OF MATERIALS		

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES * * * DO NOT SCALE THIS DRAWING MATERIAL		Q11 INSTRUMENTATION LAB CAMBRIDGE MASS DRAWN <i>J.P. Leonard</i> 3 Nov 67 CHECKED <i>S. Johnson</i> 6 Nov 67 APPROVED <i>John C. Hall</i> 6 Nov 67 APPROVED <i>W.S. Johnson</i> 1 Nov 67 CONTROL NO. 9-457 APPROVED <i>C. J. [Signature]</i> 4/66 APPROVED <i>Ge [Signature]</i> 4/66 NSC		LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS COVER ASSEMBLY INDICATOR ALARM AGC DSKY CODE IDENT NO. 80230 SIZE D DRAWING NO. 2003897 DATE SCALE 2/1 SHEET 1 OF	
2003899		NEXT ASSY	USED ON	APPLICATION			

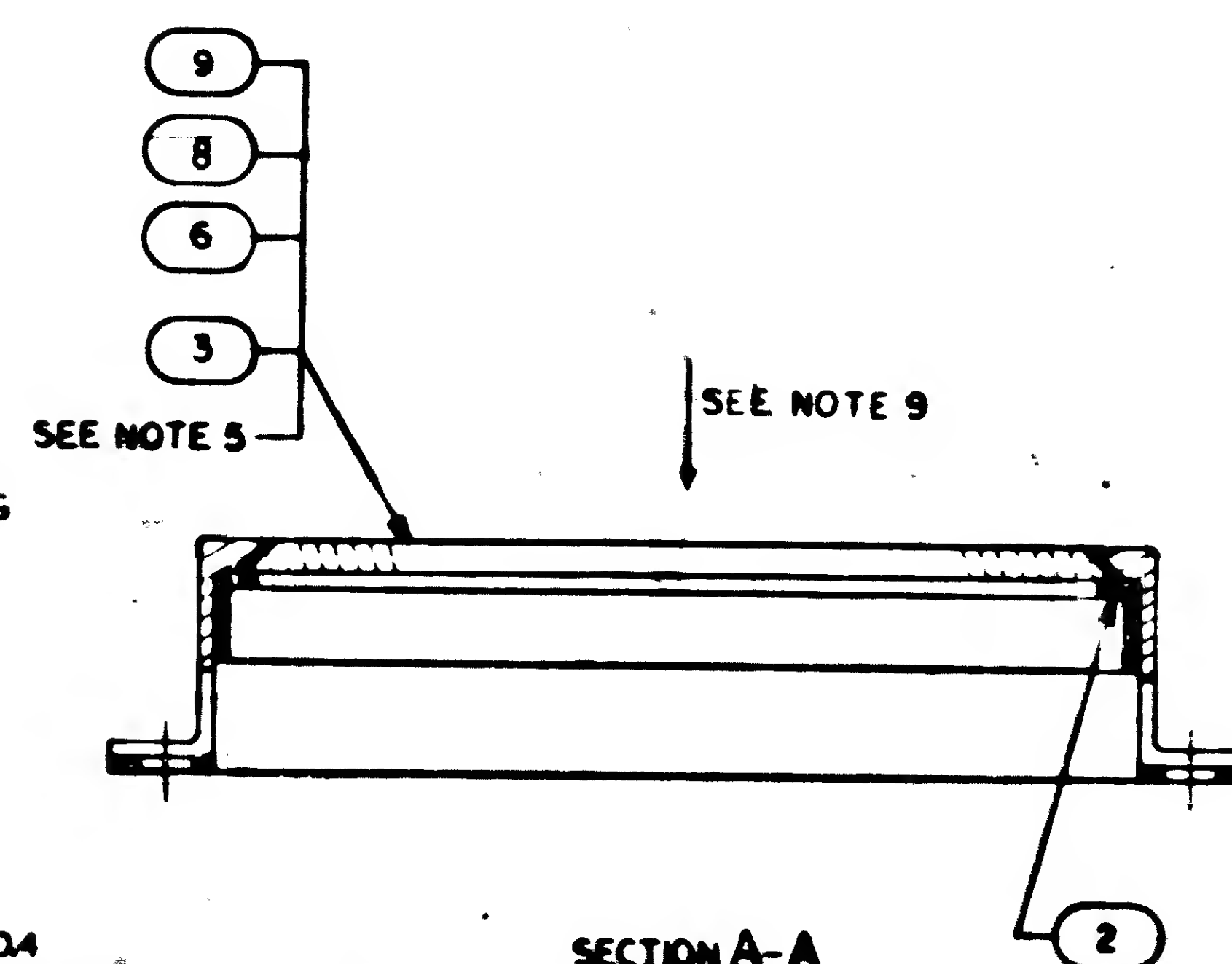
NOTE APPLICATION	
- 011	1 THRU 5
- 021	125689
- 031	125789
- 041	125789

REVISIONS <i>7/26/62</i>						
SYM	SOME	DESCRIPTION	DR	CHK	DATE	APPROV
A		REVISED PER TDRR 35650	<i>WJH</i>	<i>E W</i>	<i>7/26/62</i>	<i>WJH</i>
B		REVISED PER TDRR 36450	<i>E W</i>	<i>7/</i>	<i>7/26/62</i>	<i>WJH</i>
C		REVISED PER TDRR 36557	<i>E W</i>	<i>7/26/62</i>	<i>7/26/62</i>	<i>WJH</i>



NOTES:

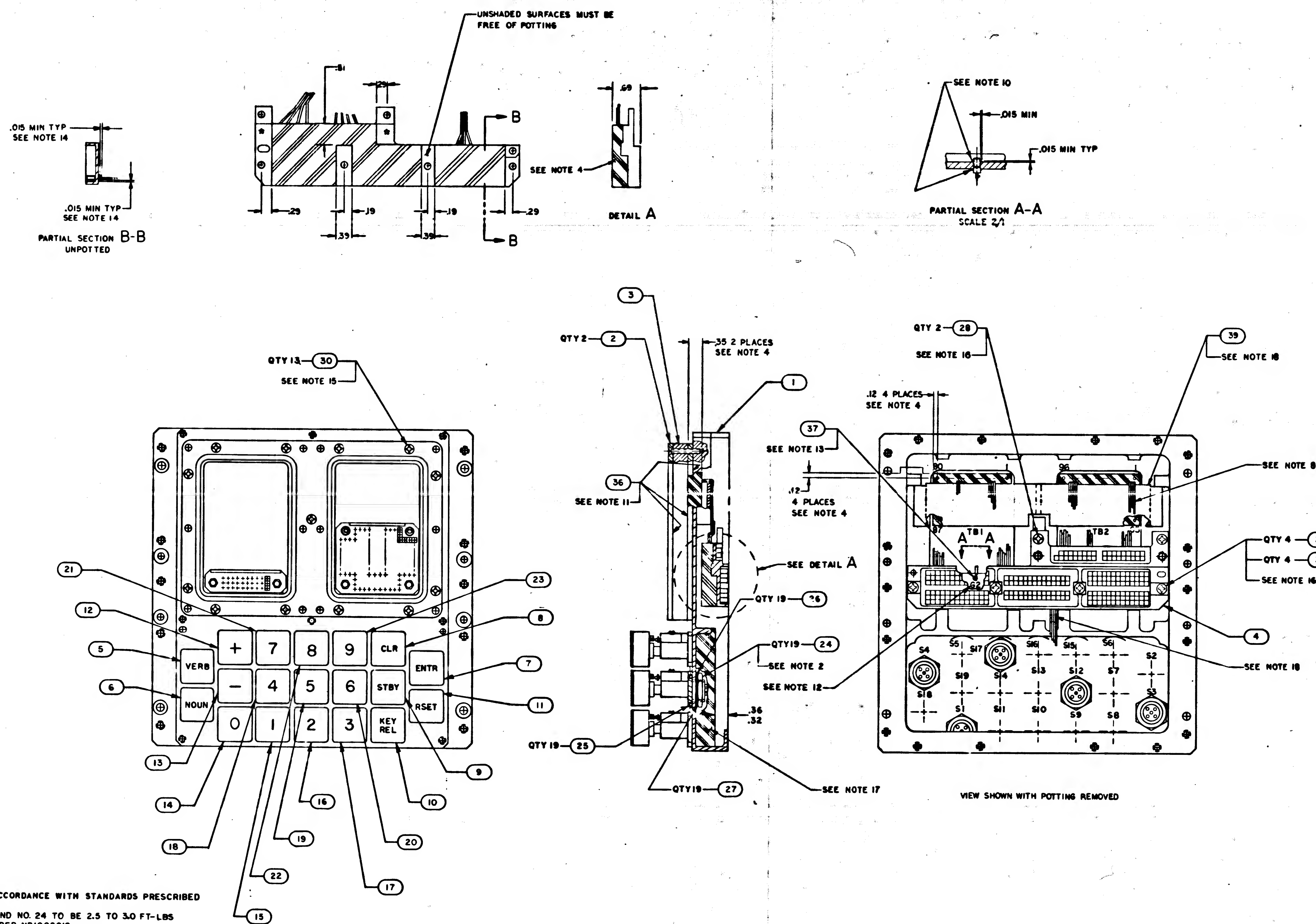
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. IDENTIFY WITH PART NO. PER
ND1002019
3. BOND FIND NO.2 AND FIND NO.3 TO FIND NO.1 AS INDICATED USING
FIND NO.4. CURE AT ROOM TEMPERATURE FOR
24 HOURS MIN. PRIME AS REQD USING 1010900
- ~~4. BOND FIND NO.2 TO FIND NO.1 AS INDICATED USING
FIND NO.5. CURE AT ROOM TEMPERATURE FOR
24 HOURS MIN.~~
5. SURFACE OF FIND NO.3,6,8 OR 9 TO BE FLUSH TO .010
BELOW SURFACE OF FIND NO.1
6. BOND FIND NO.6 TO FIND NO.1 AS INDICATED USING FIND NO.4
CURE AT ROOM TEMPERATURE FOR 24 HOURS MIN.
7. BOND FIND NO.6 OR FIND NO.9 TO FIND NO.7 AS INDICATED USING FIND NO.4
CURE AT ROOM TEMPERATURE FOR 24 HOURS MIN.
8. COMPLETED ASSY SHALL BE TESTED IN ACCORDANCE WITH AND
SHALL MEET WHEN MOUNTED TO SIMULATE ACTUAL APPLICATION:
A. THE THERMAL REQUIREMENTS OF PARA 313. LESS REQUIREMENTS OF
PARA 312 OF PS 2003 899
B. THE VIBRATION REQUIREMENTS OF PARA 314.1 OF PS 2003 899



9. AFTER TESTING PER NOTE 8 THE FOLLOWING TEST SHALL BE PERFORMED:
A. PUSH FORCE-AIOLB LOAD SHALL BE APPLIED TO THE AREA OF THE GLASS INDICATED IN THE DIRECTION INDICATED. ANY VISUAL DEGRADATION OF THE ADHESIVE QUALITIES OF OF FIND NO. 4 IS CAUSE FOR REJECTION

I	-	-	-	2004743 - 003		PANEL INDICATOR	3
I	-	-	-	2004743 - 002		PANEL INDICATOR	5
I	-	-	-	2004699 - 001		FRAME INDICATOR COVER	5
-	-	-	-	2004743 - 001		PANEL INDICATOR	5
-	-	-	-	AR 1008341		ADHESIVE SEALING	5
AR	AR	AR	AR	1006338 - 002		ADHESIVE, SILICONE	4
-	-	-	-	2004698		PANEL INDICATOR	3
-	-	-	-	2004741		GASKET, INDICATOR COVER	2
-	-	-	-	2004699 - 000		FRAME INDICATOR COVER	1
QTY REQ	QTY REQ	QTY REQ	QTY REQ	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	INDICATOR OR DESCRIPTION	FR

						DRAWING NO.	SHEET	OF
						LIST OF MATERIALS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
						COVER ASSEMBLY	AGC DSKY	
						DRAWING NO.	SIZE	DRAWING NO.
						80230	D	2003897
						DATE	SCALE	SHEET
						MSC	2 / 1	OF



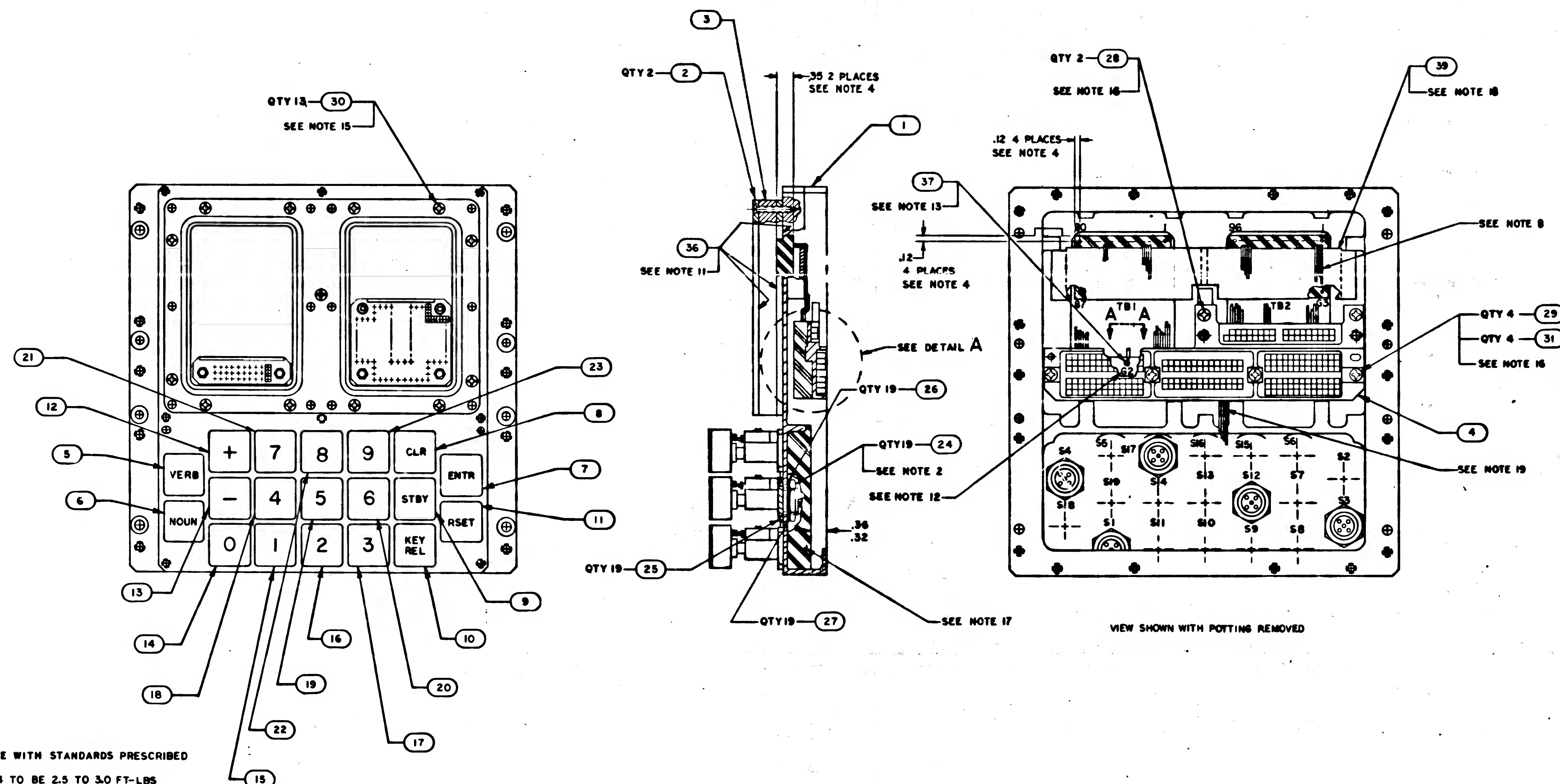
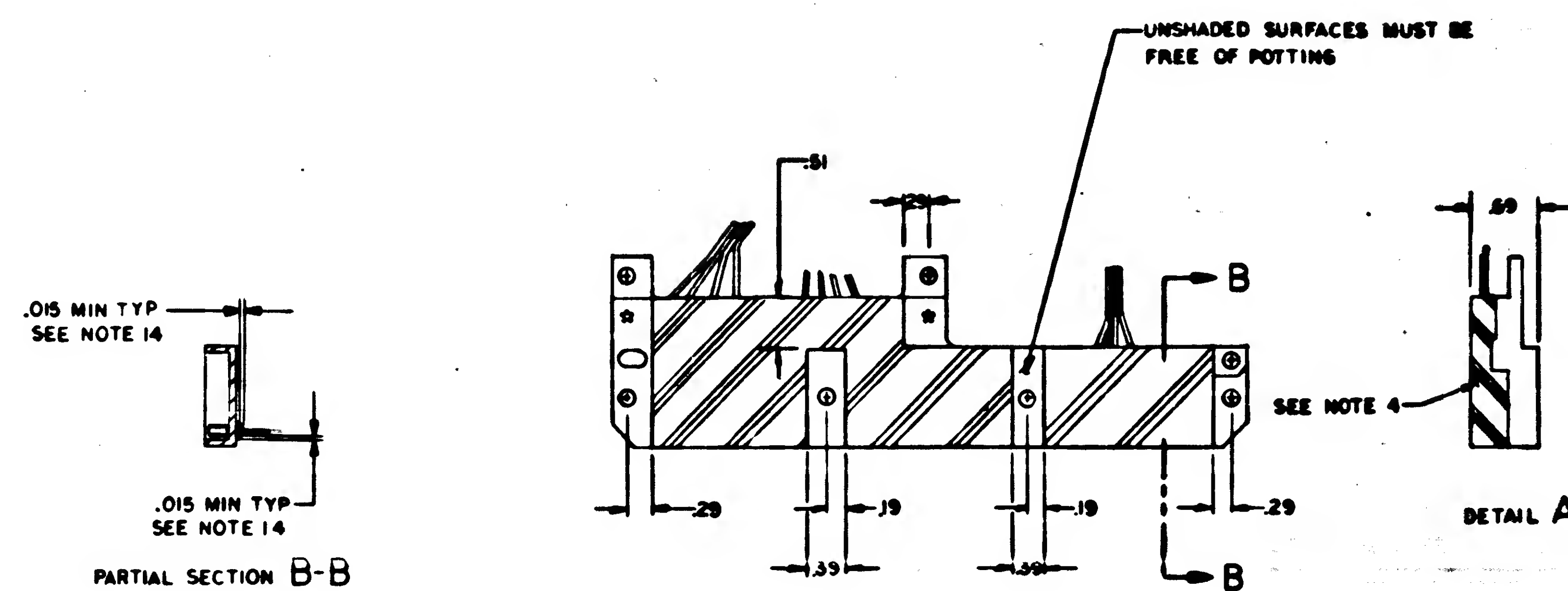
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
 3. IDENTIFY WITH PART NO. PER NDIO02019
 4. ENCAPSULATE INDICATED AREAS PER NDIO02236
 5. SOLDER PER NDIO02071 USING SOLDER PER NDIO02075
 6. WELD PER NDIO02005
 7. A R DENOTES AS REQUIRED
 8. BOND FIND NO. 32, 33, 58, 40 & 41 TO FIND NO. 39 PER NDIO02004, TYPE II
 9. DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
 10. SEAL FIND NO. 37 TO FIND NO. 1 PER NDIO02004, TYPE II
 11. APPLY FIND NO. 36 TO INDICATED SURFACES OF FIND NO. 2.
 12. DO NOT APPLY TO BONDED RUBBER
 13. MARK 07/10 CLASS BLACK CHARACTERS PER NDIO02019 AND NDIO02122 TYPE II HIGH VISIBILITY MARKING INK 006271-11
 14. MOUNTING TORQUE FOR FIND NO. 337 TO BE 15-20 INCH OUNCES
 15. SEAL INSULATORS ON FIND NO. 4 PER NDIO02004, TYPE II
 16. MOUNTING TORQUE FOR FIND NO. 50 TO BE 3.5-4.5 INCH POUNDS
 17. MOUNTING TORQUE FOR FIND NO. 28 AND FIND NO. 29 TO BE 8 TO 9 INCH POUNDS
 18. ENCAPSULATE PER NO
 19. BOND FIND NO. 39 & WIRES FROM 31 THRU 519 TO FIND NO. 1 PER NDIO02004, TYPE II

NO	2005953	INTERCONNECTING DIAGRAM	RE
AR	1010807-22	WIRE, INSULATED	41
AR	1010416-14	WIRE, INSULATED	40
I	2004898	SUPPORT, WIRE	39
AR	1010416-13	WIRE, INSULATED	38
I	2004039	TERMINAL, THREADED	37
AR	1006879	SILICONE COMPOUND	36
AR	1010416-15	WIRE, INSULATED	35
AR	1012507-003	TAPE, LACING	34
AR	1010416-20	WIRE, INSULATED	33
AR	1010848-1	WIRE, INSULATED	32
4	NAS620-6L	WASHER, FLAT	31
I	MS3243-20	SCREW, FLAT HD, CROSS RECESSED	30
4	MS51957-30	SCREW PAN HD, CROSS RECESSED	29
2	MS51959-28	SCREW, FLAT HD, CROSS RECESSED	28
I9	1010635-003	WASHER, LOCK	27
I	2004940-001	WASHER, PLAIN	26
I9	1000159-18	O RING SEAL	25
I	2004942	NUT, HEX	24
I	2003984-211	SWITCH, ASSEMBLY PUSHBUTTON	23
I	-131		22
I	-181		21
I	-171		20
I	-161		19
I	-151		18
I	-141		17
I	-131		16
I	-121		15
I	-111		14
I	-091		13
I	-081		12
I	-071		11
I	-061		10
I	-051		9
I	-041		7
I	-031		6
I	-021		8
I	2003984-011	SWITCH, ASSEMBLY PUSHBUTTON	5
I	2003948-011	CONNECTOR, PLATE ASSEMBLY	4
I	200359-011	ADAPTER, PLATE ASSEMBLY	3
2	K06351	GASKET, PREFORMED	2
I	2004368-011	HOUSING, FRONT	1
TTY INFO	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FORM NO.

[illegible]

2003949 B

REV	DATE	BY	APP	DESCRIPTION
1	26856	26856	26856	REVISED PER TORR 26856
2	27913	27913	27913	REVISED PER TORR 27913



- NOTES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
 - IDENTIFY WITH PART NO. PER NDIO02019
 - ENCAPSULATE INDICATED AREAS PER NDIO02236
 - SOLDER PER NDIO02071 USING SOLDER PER NDIO02075
 - WELD PER NDIO02005
 - AR DENOTES AS REQUIRED
 - BOND FIND NO. 32, 33, 38, 40 & 41 TO FIND NO. 39 PER NDIO02009, METHOD C
 - DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
 - SEAL FIND NO. 37 TO FIND NO. 1 PER NDIO02004 TYPE XI
 - APPLY FIND NO. 36 TO INDICATED SURFACES OF FIND NO. 2. DO NOT APPLY TO BONDED RUBBER
 - MARK .07/.10 HIGH BLACK CHARACTERS PER NDIO02019 AND NDIO02122 TYPE II CLASS 2, USING MARKING INK 1006271-11
 - MOUNTING TORQUE FOR FIND NO. 37 TO BE 15-20 INCH OUNCES
 - SEAL INSULATORS ON FIND NO. 4 PER NDIO02004 TYPE XI
 - MOUNTING TORQUE FOR FIND NO. 30 TO BE 3.5-4.5 INCH POUNDS
 - MOUNTING TORQUE FOR FIND NO. 28 AND FIND NO. 29 TO BE 8 TO 9 INCH POUNDS
 - ENCAPSULATE INDICATED AREA PER NDIO02295
 - BOND FIND NO. 39 TO FIND NO. 1 PER NDIO02004 TYPE XI
 - BOND FIND NO. 33, 38 AND 40 TO FIND NO. 1 PER NDIO02009, METHOD C

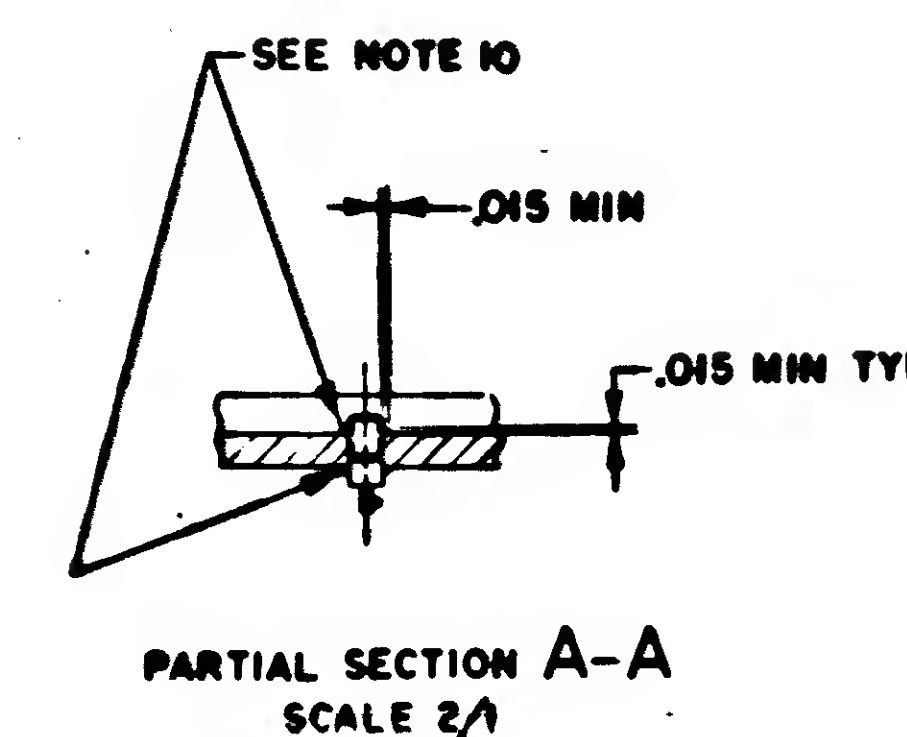
QTY	PART OR IDENTIFYING NO.	DESCRIPTION	QTY	PART OR IDENTIFYING NO.	DESCRIPTION
1	2003949	INTERCONNECTING DIAGRAM	25	1010807-22	WIRE, INSULATED
1	1010416-14	WIRE, INSULATED	40	1010416-14	WIRE, INSULATED
1	2004898	SUPPORT, WIRE	39	1010416-13	WIRE, INSULATED
1	1010416-13	WIRE, INSULATED	38	2004039	TERMINAL, THREADED
1	1006879	SILICONE COMPOUND	37	1010416-15	WIRE, INSULATED
1	1010416-15	WIRE, INSULATED	35	1012507-003	TAPE, LACING
1	1012507-003	TAPE, LACING	34	1010416-20	WIRE, INSULATED
1	1010416-20	WIRE, INSULATED	33	1010848-1	WIRE, INSULATED
1	1010848-1	WIRE, INSULATED	32	4	WASHER, FLAT
1	4	WASHER, FLAT	31	1551959-20	SCREW, FLAT HD, CROSS RECESSED
1	1551959-20	SCREW, FLAT HD, CROSS RECESSED	30	1551957-30	SCREW, PAN HD, CROSS RECESSED
1	1551957-30	SCREW, PAN HD, CROSS RECESSED	29	1551959-28	SCREW, FLAT HD, CROSS RECESSED
1	1551959-28	SCREW, FLAT HD, CROSS RECESSED	28	1010615-003	WASHER, LOCK
1	1010615-003	WASHER, LOCK	27	2004940-001	WASHER, PLAIN
1	2004940-001	WASHER, PLAIN	26	1000159-18	O-RING, SEAL
1	1000159-18	O-RING, SEAL	25	2004942	NUT, HEX
1	2004942	NUT, HEX	24	2003984-211	SWITCH, ASSEMBLY PUSHBUTTON
1	2003984-211	SWITCH, ASSEMBLY PUSHBUTTON	23	191	
1	191		22	181	
1	181		21	171	
1	171		20	161	
1	161		19	151	
1	151		18	141	
1	141		17	131	
1	131		16	121	
1	121		15	111	
1	111		14	101	
1	101		13	091	
1	091		12	081	
1	081		11	071	
1	071		10	061	
1	061		9	051	
1	051		8	041	
1	041		7	031	
1	031		6	021	
1	021		5	2003984-011	SWITCH, ASSEMBLY PUSHBUTTON
1	2003984-011	SWITCH, ASSEMBLY PUSHBUTTON	4	2003948-011	CONNECTOR, PLATE ASSEMBLY
1	2003948-011	CONNECTOR, PLATE ASSEMBLY	3	2003949-011	ADAPTED PLATE ASSEMBLY
1	2003949-011	ADAPTED PLATE ASSEMBLY	2	1006351	GASKET, PREFORMED
1	1006351	GASKET, PREFORMED	1	2004968-011	HOUSING, FRONT
1	2004968-011	HOUSING, FRONT	1		

2003949 B

FRONT HOUSING ASSEMBLY

ABC DSKY

80230 J 2003949



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
 3. IDENTIFY WITH PART NO. PER NDIO02019
 4. ENCAPSULATE INDICATED AREAS PER NDIO02236
 5. SOLDER PER ND1002071 USING SOLDER PER NDIO02075
 6. WELD PER NDIO02005
 7. AIR DENOTES AS REQUIRED
 8. BOND FIND NO. 32,33,38, 40 & 41 TO FIND NO. 39 PER NDIO02009, METHOD C
 9. DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
 10. SEAL FIND NO.37 TO FIND NO.1 PER NDIO02004 TYPE II
 11. APPLY FIND NO.36 TO INDICATED SURFACES OF FIND NO. 2.
DO NOT APPLY TO BONDED RUBBER
 12. MARK 07/10 HIGH BLACK CHARACTERS PER NDIO02019 AND NDIO02122
TYPE II CLASS 2 USING MARKING INK 1006271-11
 13. MOUNTING TORQUE FOR FIND NO.37 TO BE 15-20 INCH OUNCES
 14. SEAL INSULATORS ON FIND NO.4 PER NDIO02004 TYPE III
 15. MOUNTING TORQUE FOR FIND NO.30 TO BE 3.5-4.5 INCH POUNDS
 16. MOUNTING TORQUE FOR FIND NO.28 AND FIND NO.29 TO BE 8 TO 9 INCH POUNDS
 17. ENCAPSULATE INDICATED AREA PER NDIO02295
 18. BOND FIND NO.39 TO FIND NO.1 PER NDIO02004, TYPE II
 19. BOND FIND NO.33,38 AND 40 TO FIND NO.1 PER NDIO02009, METHOD C

2009355		INTERCONNECTING DIAGRAM	
AR	1010807-22	WIRE, INSULATED	
AR	1010416-14	WIRE, INSULATED	
I	2004998	SUPPORT, WIRE	
AR	1010416-13	WIRE, INSULATED	
I	2004039	TERMINAL, THREADED	
A R	1006679	SILICONE COMPOUND	
AR	1010416-15	WIRE, INSULATED	
AR	1012507-003	TAPE, LACING	
A R	1010416-20	WIRE, INSULATED	
AR	1010R48-1	WIRE, INSULATED	
4	NAS620-6L	WASHER, FLAT	
13	W51939-20	SCREW, FLAT HD, CROSS RECESSED	
4	W51937-30	SCREW, PAN HD, CROSS RECESSED	
2	W51939-28	SCREW, FLAT HD, CROSS RECESSED	
19	1010675-003	WASHER, LOCK	
19	2004940-001	WASHER, PLAIN	
19	1006159-18	O RING, SEAL	
19	2004942	NUT, HEX	
I	2003984-211	SWITCH, ASSEMBLY PUSHBUTTON	
I	-151		
I	-181		
I	-171		
I	-161		
I	-151		
I	-141		
I	-131		
I	-121		
I	-111		
I	-091		
I	-081		
I	-071		
I	-061		
I	-051		
I	-041		
I	-031		
I	-021		
I	2003984-011	SWITCH, ASSEMBLY PUSHBUTTON	
I	2003948-011	CONNECTOR, PLATE ASSEMBLY	
I	2003959-011	ADAPTER, PLATE ASSEMBLY	
2	1006351	GASKET, PERFORMED	
2	2004968-021	HOUSING, FRONT	

ITEM NO.

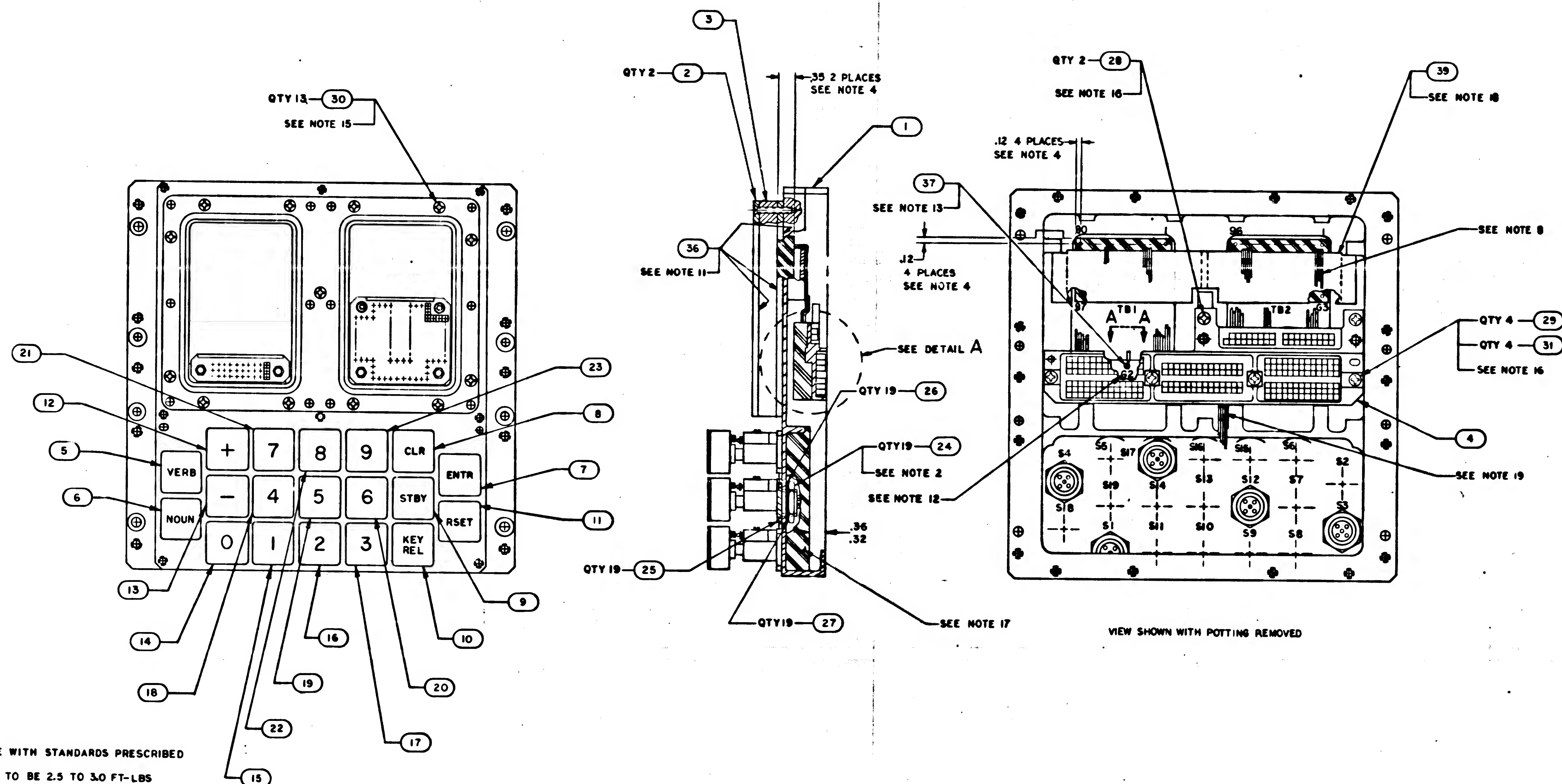
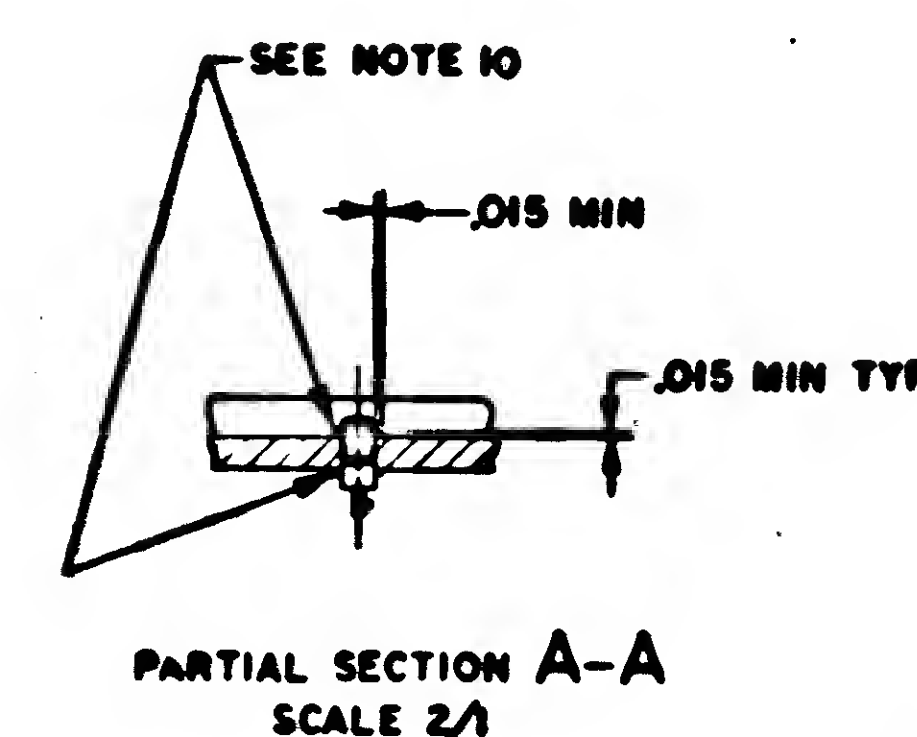
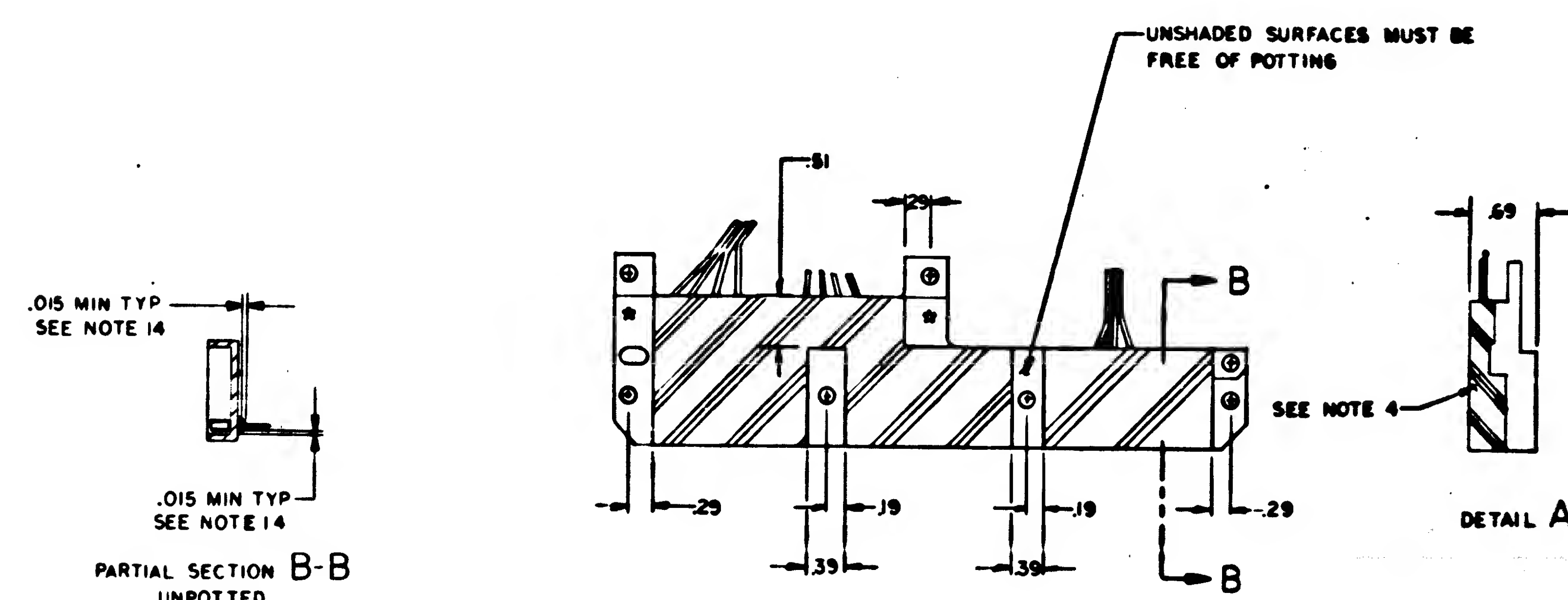
QTY REQD

PART OR IDENTIFYING NO.

MANUFACTURER OR DESCRIPTION

2003950 NEXT AERY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (PARENTS VALUES ARE IN %)		011 MIT INSTRUMENTATION LAB COLUMBUS, MISS		LIST OF MATERIALS MANNNED SPACECRAFT CENTER HOUSTON, TEXAS	
		RESISTOR VALUES ARE IN OHM TOLERANCES ON PRACTICES SPECIALLY ANNEALED IN OHM DO NOT SCALE THIS DRAWING NATIONAL		DRAWN BY <u>J. E. METZGER</u> CHECKED BY <u>J. E. METZGER</u> APPROVED BY <u>J. E. METZGER</u> IN FULL APPROVED <u>W. H. HIGDON</u> IN FULL		FRONT HOUSING ASSEMBLY AGC DSKY	
2003950 NEXT AERY USED ON APPLICATION		APPROVED BY <u>J. E. METZGER</u> APPROVED BY <u>J. E. METZGER</u>		CODE IDENT NO. SIZE 80230 J		SHIPPING NO. 2003949	
				SCALE 1:1		SHEET 1 OF 1	

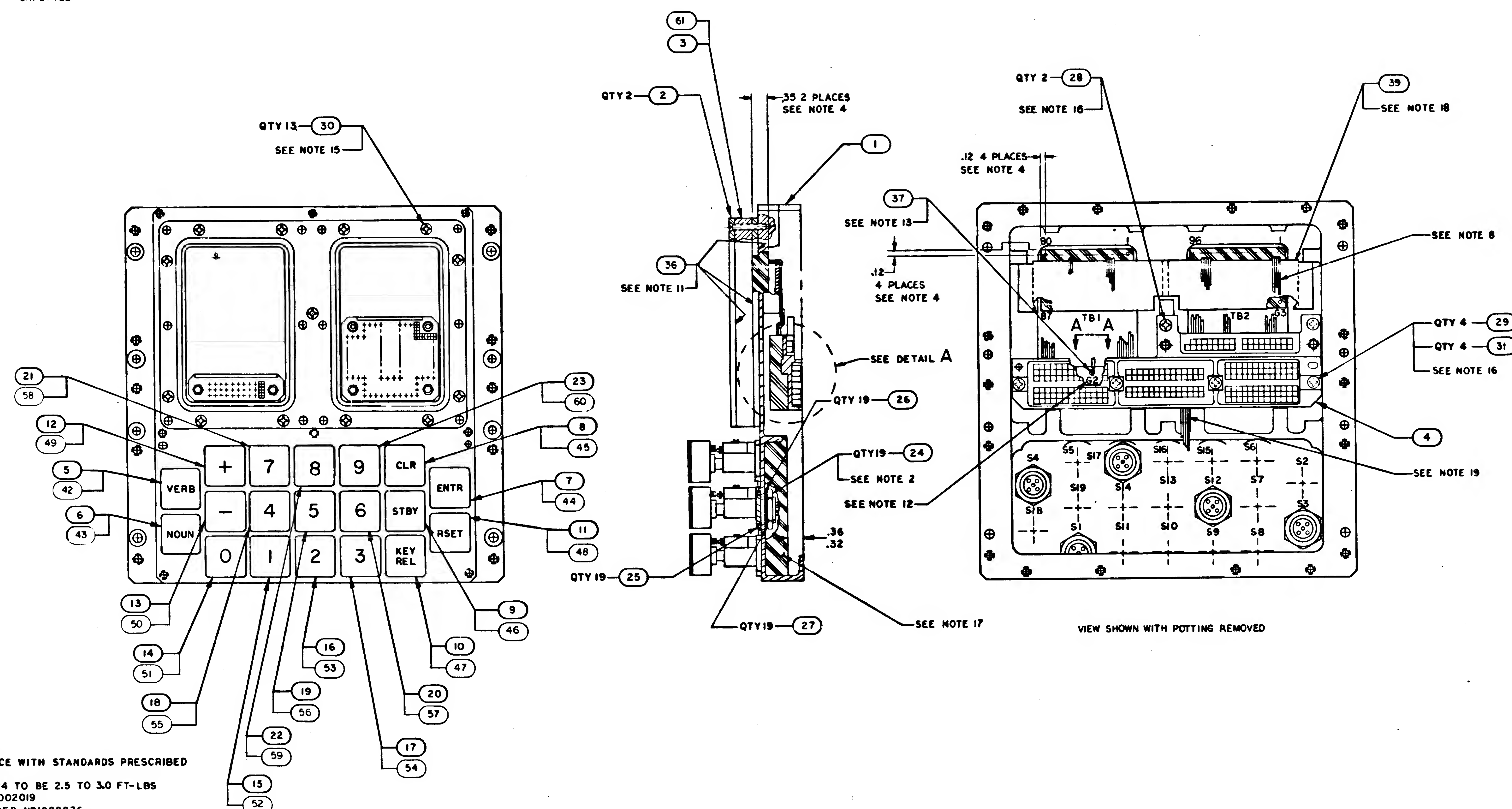
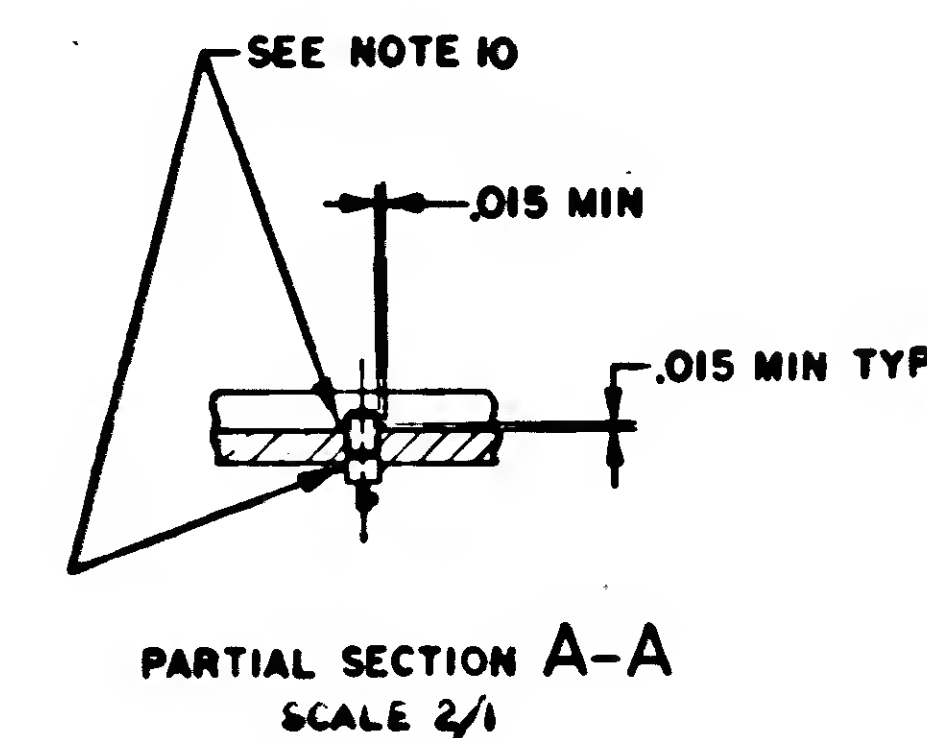
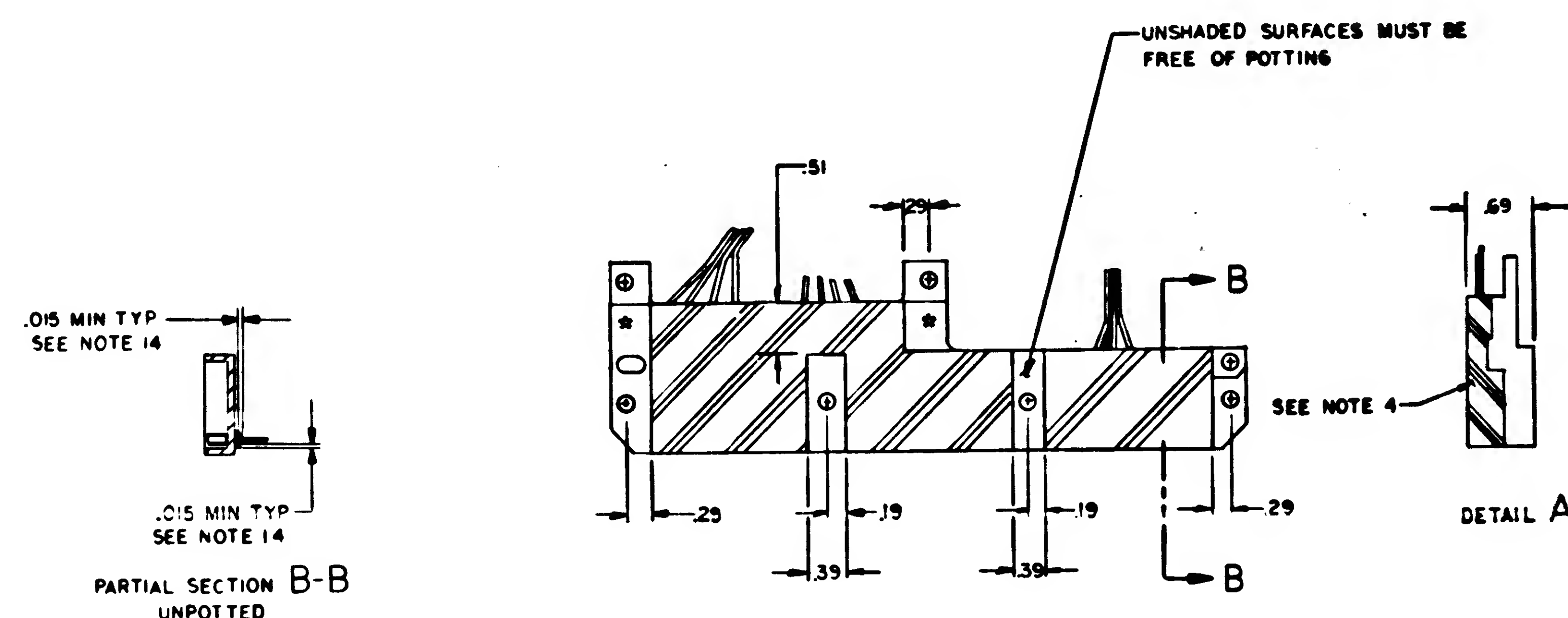
		REVISION: 2020-				
S/N	ZONE	DESCRIPTION	DR	CHK	DATE	APPROV
A		REVISED PER TORR 26856	PER	PKT	5/6/20	
B		REVISED PER TORR 27913	PKT	26856	5/7/20	
C		REVISED PER TORR 28178	PKT	27913	5/7/20	
D		REVISED PER TORR 29705	PKT	28178	5/7/20	



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
3. IDENTIFY WITH PART NO. PER ND1002019
4. ENCAPSULATE INDICATED AREAS PER ND1002236
5. SOLDER PER ND1002071 USING SOLDER PER ND1002078
6. WELD PER ND1002005
7. A R DENOTES AS REQUIRED
8. BOND FIND NO 32,33,36, 40 & 41 TO FIND NO. 39 PER ND1002009, METHOD C
9. DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
10. SEAL FIND NO.37 TO FIND NO.1 PER ND1002004 TYPE II
11. APPLY FIND NO.36 TO INDICATED SURFACES OF FIND NO.2.
DO NOT APPLY TO BONDED RUBBER
12. MARK .07/10 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122
TYPE II CLASS 2,USING MARKING INK 100G271--II
13. MOUNTING TORQUE FOR FIND NO.37 TO BE 15 - 20 INCH POUNDS
14. SEAL INSULATORS ON FIND NO. 4 PER ND1002004 TYPE II
15. MOUNTING TORQUE FOR FIND NO.30 TO BE 3.5 - 4.5 INCH POUNDS
16. MOUNTING TORQUE FOR FIND NO. 28 AND FIND NO. 29 TO BE 8 TO 9 INCH POUNDS
17. ENCAPSULATE INDICATED AREA PER ND1002295, EXCEPT CURE AT 155±5°F FOR 2 HOURS MINIMUM
18. BOND FIND NO.39 TO FIND NO.1 PER ND1002004, TYPE II
19. BOND FIND NO.33,38 AND 40 TO FIND NO.1 PER ND1002009, METHOD C
20. THIS ASSEMBLY NOT TO EXCEED 160°F IN MANUFACTURING PROCESS

QTY	PART OR IDENTIFYING NO.	INTERCONNECTING DIAGRAM	QTY
1	2005953		
AR	1010807-22	WIRE, INSULATED	4
AR	1010416-14	WIRE, INSULATED	4
1	2004898	SUPPORT, WIRE	3
AR	1010416-13	WIRE, INSULATED	3
1	2004039	TERMINAL, THREADED	3
AR	1006875	SILICONE COMPOUND	3
AR	1010416-15	WIRE, INSULATED	3
AR	1012507-003	TAPE, LACING	3
AR	1010416-20	WIRE, INSULATED	3
AR	1010848-1	WIRE, INSULATED	3
4	NAS620-64	WASHER, FLAT	3
13	MS16159-20	SCREW, FLAT HD, CROSS RECESSED	3
4	MS19557-30	SCREW, PAN HD, CROSS RECESSED	3
2	MS1959-28	SCREW, FLAT HD, CROSS RECESSED	3
10	1010635-003	WASHER, LOCK	3
19	2004940-001	WASHER, PLAIN	2
19	1000159-18	O RING SEAL	2
1	2004942	NUT, HEX	2
1	2003984-211	SWITCH, ASSEMBLY PUSHBUTTON	2
1	-191		
1	-181		
1	-171		
1	-161		
1	-151		
1	-141		
1	-131		
1	-121		
1	-111		
1	-091		
1	-081		
1	-071		
1	-061		
1	-051		
1	-041		
1	-031		
1	2003984-011	SWITCH, ASSEMBLY PUSHBUTTON	2
1	2003948-01	CONNECTOR, PLATE ASSEMBLY	2
1	2003959-01	ADAPTER, PLATE ASSEMBLY	2
2	1006351	GASKET, PREFORMED	3
1	2004968-021	HOUSING, FRONT	2

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS NOTED ARE: FRACTIONS DECIMALS ANGLES .0005 .001 .01 DO NOT SCALE THIS DRAWING MATERIAL</p> <p>ZOC3550</p> <p>RELEASER USED ON</p> <p>APPLICATION</p>	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS NOTED ARE: FRACTIONS DECIMALS ANGLES .0005 .001 .01 DO NOT SCALE THIS DRAWING MATERIAL</p>	<p>DWT DISPERSED/STATION LAMP</p> <p>DESIGN BY CHECKED APPROVED APPROVED</p> <p>DATE DATE DATE DATE</p> <p>APPROVED DWT APPROVED AGC</p>	<p>NAME OF MATERIAL MANNED SPACECRAFT CENTER</p> <p>FRONT HOUSING ASSEMBLY</p> <p>AGC DSKY</p> <p>CASE NO. 101 SEE 80230 J</p> <p>DRAWING NO. 2003949</p> <p>DATE SCALE 1:10 SHEET 1 OF 1</p>
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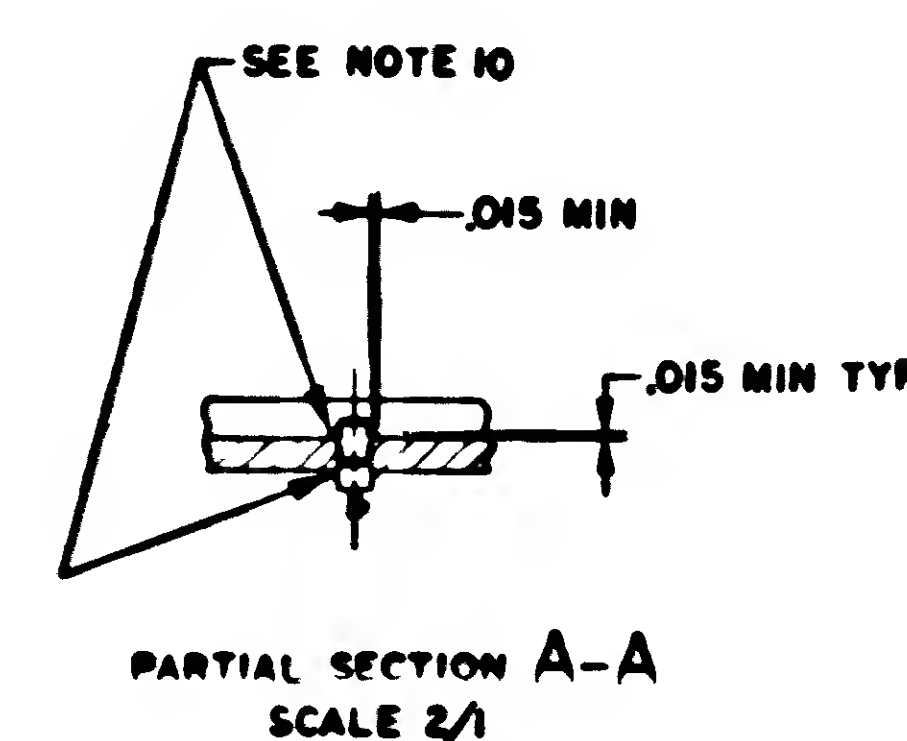


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
 3. IDENTIFY WITH PART NO. PER NDI002019
 4. ENCAPSULATE INDICATED AREAS PER NDI002236
 5. SOLDER PER NDI002071 USING SOLDER PER NDI002075
 6. WELD PER NDI002005
 7. AR DENOTES AS REQUIRED
 8. BOND FIND NO. 32, 33, 36, 40 & 41 TO FIND NO. 39 PER NDI002009, METHOD C
 9. DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
 10. SEAL FINE NO. 37 TO FIND NO. 1 PER NDI002004 TYPE II
 11. APPLY FIND NO. 36 TO INDICATED SURFACES OF FIND NO. 2.
DO NOT APPLY TO BONDED RUBBER
 12. MARK .07/10 HIGH BLACK CHARACTERS PER NDI002019 AND NDI002122
TYPE II CLASS 2, USING MARKING INK 100G721-11
 13. MOUNTING TORQUE FOR FIND NO. 37 TO BE 15-20 INCH OUNCES
 14. SEAL INSULATORS ON FIND NO. 4 PER NDI002004 TYPE II
 15. MOUNTING TORQUE FOR FIND NO. 30 TO BE 3.5-4.5 INCH POUNDS
 16. MOUNTING TORQUE FOR FIND NO. 28 AND FIND NO. 29 TO BE 8 TO 9 INCH POUNDS
 17. ENCAPSULATE INDICATED AREA PER NDI002295, EXCEPT CURE AT 155±5°F FOR 2 HOURS MINIMUM
 18. BOND FIND NO. 39 TO FIND NO. 1 PER NDI002004, TYPE II
 19. BOND FIND NO. 37, 36 AND 40 TO FIND NO. PER NDI002009, METHOD C
 20. THIS ASSEMBLY NOT TO EXCEED 160°F IN MANUFACTURING PROCESS

I	—	2003864-011	ADAPTER PLATE ASSEMBLY	61
I	—	2003875-211	SWITCH ASSEMBLY, PUSHBUTTON	60
I	—	—151		58
I	—	—181		57
I	—	—171		56
I	—	—161		55
I	—	—151		54
I	—	—141		53
I	—	—131		52
I	—	—121		51
I	—	—111		50
I	—	—091		49
I	—	—081		47
I	—	—071		46
I	—	—061		45
I	—	—051		44
I	—	—041		43
I	—	—031		42
I	—	—021		41
I	—	2003875-011	SWITCH ASSEMBLY, PUSHBUTTON	40
⊗	⊗	2005953	INTERCONNECTING DIAGRAM	REF
AR	AR	1010807-22	WIRE, INSULATED	41
AR	AR	1010416-14	WIRE, INSULATED	40
AR	AR	2004988	SUPPORT, WIRE	39
AR	AR	1010416-13	WIRE, INSULATED	38
I	I	2004039	TERMINAL, THREADED	37
AR	AR	1006879	SILICONE COMPOUND	36
AR	AR	1010416-15	WIRE, INSULATED	35
AR	AR	1012507-003	TAPE, LACING	34
AR	AR	1010416-20	WIRE, INSULATED	33
AR	AR	1010848-1	WIRE, INSULATED	32
I	I	M55220-41	WASHER, FLAT	31
I	I	M551949-20	SCREW, FLAT HD, CROSS RECESSED	30
4	4	M551957-30	SCREW, PAN HD, CROSS RECESSED	29
2	2	M551959-28	SCREW, FLAT HD, CROSS RECESSED	28
19	19	1010635-003	WASHER, LOCK	27
19	19	2004940-001	WASHER, PLAIN	26
19	19	10002159-18	O RING, SEAL	25
19	19	2004942	NUT, HEX	24
—	I	2007984-211	SWITCH ASSEMBLY, PUSHBUTTON	23
—	I	—191		22
—	I	—181		21
—	I	—171		20
—	I	—161		19
—	I	—151		18
—	I	—141		17
—	I	—131		16
—	I	—121		15
—	I	—111		14
—	I	—091		13
—	I	—081		12
—	I	—071		11
—	I	—061		10
—	I	—051		9
—	I	—041		8
—	I	—031		7
—	I	—021		6
—	I	2003964-011	SWITCH ASSEMBLY, PUSHBUTTON	5
I	I	2003948-011	CONNECTOR, PLATE ASSEMBLY	4
—	I	2003959-011	ADAPTER PLATE ASSEMBLY	3
2	2	1006351	GASKET, PREFORMED	2
—	I	2003968-021	HOUSING, FRONT	1
CITY	STATE	COUNTRY	DATE OF REVISION	REV.
NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK

	UNLESS OTHERWISE SPECIFIED CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES OR FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL	E-021 011	MIT INSTRUMENTATION LAB CAMBODGE MASS 01	LIST OF MATERIALS MANUALLY MANUFACTURED SPACECRAFT CENTER HOU-LIN TEXAS
2003994			DRAWN BY J. B. GIBSON CHECKED BY J. B. GIBSON APPROVED BY J. B. GIBSON DATE 10/1/68	FRONT HOUSING ASSEMBLY AGC DSKY
2003950			APPROVED BY J. B. GIBSON DATE 10/1/68	CODE IDENT NO SIZE 80230 J
NEXT ASSY	USED ON			DRAWING NO 2003949
APPLICATION				SHEET 1 OF 3

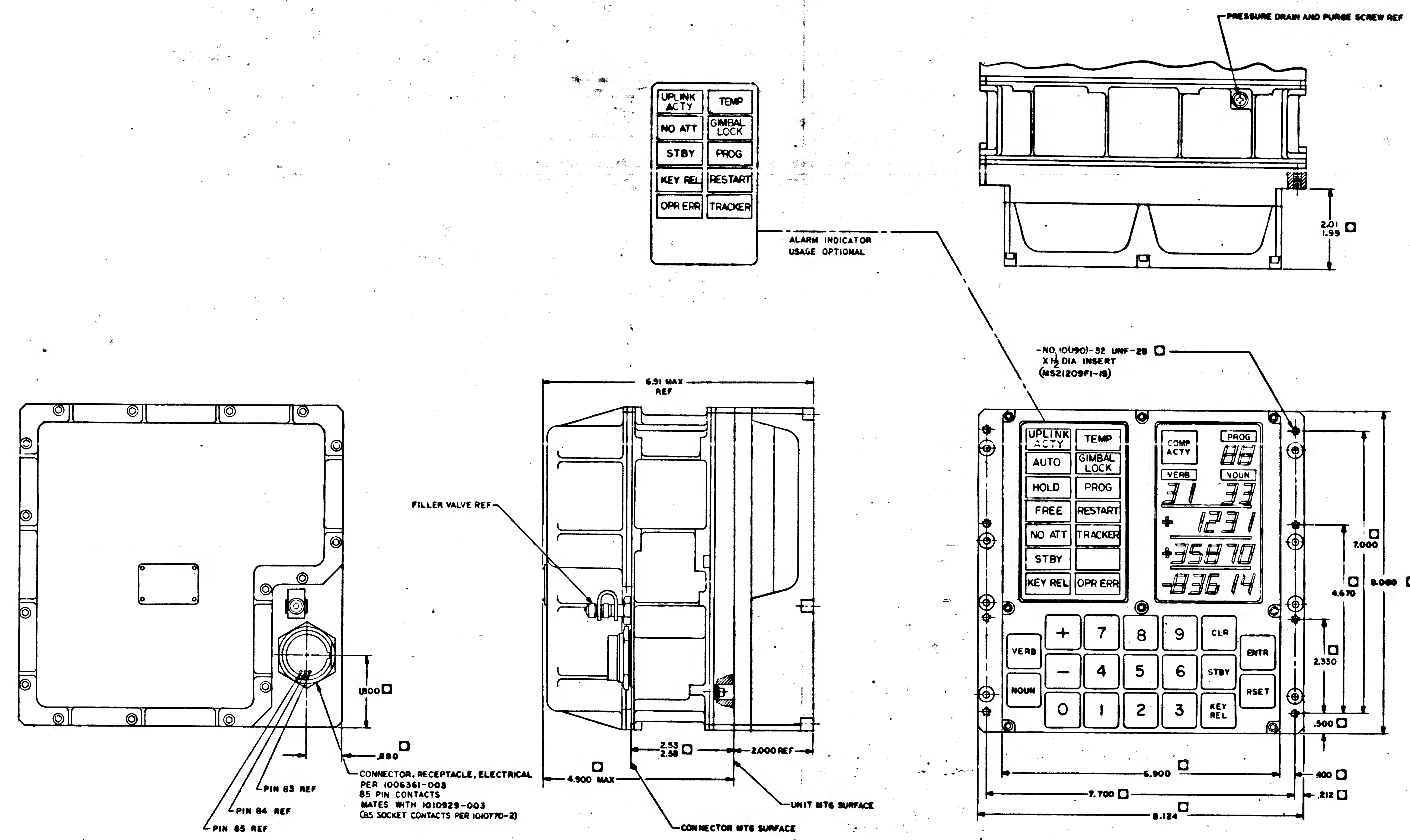
DATE	DESCRIPTION	DR	CR	DEBIT	CREDIT	BALANCE
1	REVISED PER TORR 26856	100		26856		26856
2	REVISED PER TORR 27913	100		27913		54769
3	REVISED PER TORR 26178	100		26178		28591
4	REVISED PER TORR 29705	100		29705		58296
5	REVISED PER TORR 32580	100		32580		90876
6	REVISED PER TORR 33413	100		33413		124289
7	REVISED PER TORR 34492	100		34492		158781



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MOUNTING TORQUE FOR FIND NO. 24 TO BE 2.5 TO 3.0 FT-LBS
 3. IDENTIFY WITH PART NO. PER ND1002019
 4. ENCAPSULATE INDICATED AREAS PER ND1002236
 5. SOLDER PER ND1002071 USING SOLDER PER ND1002075
 6. WELD PER ND1002005
 7. A.R. DENOTES AS REQUIRED
 8. BOND FIND NO. 32, 33, 38, 40 & 41 TO FIND NO. 39 PER ND1002009, METHOD C
 9. DRESS AND TRIM AT ASSEMBLY USING FIND NO. 34
 10. SEAL FINE NC. 37 TO FINE NC. 1 PER ND1002064 TYPE III
 11. APPLY FIND NO. 36 TO INDICATED SURFACES OF FIND NO. 2.
DO NOT APPLY TO BONDED RUBBER
 12. MARK .07/10 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122
TYPE II CLASS 2, USING MARKING INK 1006271-II
 13. MOUNTING TORQUE FOR FIND NO. 37 TO BE 15-20 INCH OUNCES
 14. SEAL INSULATORS ON FIND NO. 4 PER ND1002187 TYPE III
 15. MOUNTING TORQUE FOR FIND NO. 30 TO BE 3.5-4.5 INCH POUNDS
 16. MOUNTING TORQUE FOR FIND NO. 28 AND FIND NO. 29 TO BE 8 TO 9 INCH POUNDS
 17. ENCAPSULATE INDICATED AREA PER ND1002225, EXCEPT CURE AT 155±5°F FOR 2 HOURS MINIMUM
 18. BOND FIND NO. 39 TO FIND NO. 1 PER ND1002004, TYPE II
 19. BOND FIND NO. 33, 38 AND 40 TO FIND NO. 1 PER ND1002009, METHOD C
 20. THIS ASSEMBLY NOT TO EXCEED 100°F IN MANUFACTURING PROCESS

	I	-	-	2003894-211	SWITCH ASSEMBLY, PUSHBUTTON	B
	I	-	-	-191		7
	I	-	-	-161		7
	I	-	-	-171		7
	I	-	-	-161		7
	I	-	-	-151		7
	I	-	-	-141		7
	I	-	-	-131		7
	I	-	-	-121		7
	I	-	-	-111		7
	I	-	-	-091		7
	I	-	-	-081		6
	I	-	-	-071		6
	I	-	-	-061		6
	I	-	-	-051		6
	I	-	-	-041		6
	I	-	-	-031		6
	I	-	-	-021		6
	I	-	-	2003894-011	SWITCH ASSEMBLY, PUSHBUTTON	6
	I	-	-	2003894-011	ADAPTER PLATE ASSEMBLY	6
	I	-	-	2003575-211	CAUTION ASSEMBLY, PUSHBUTTON	6
	I	-	-	-191		5
	I	-	-	-181		5
	I	-	-	-171		5
	I	-	-	-161		5
	I	-	-	-151		5
	I	-	-	-141		5
	I	-	-	-131		5
	I	-	-	-121		5
	I	-	-	-111		5
	I	-	-	-091		5
	I	-	-	-081		5
	I	-	-	-071		5
	I	-	-	-061		5
	I	-	-	-051		5
	I	-	-	-041		5
	I	-	-	-031		5
	I	-	-	-021		5
	X	X	X	2003875-5-011	SWITCH ASSEMBLY, PUSHBUTTON	RE
	X	X	X	2005953	INTERCONNECTING DIAGRAM	RE
AR	AR	AR	A	IOI0807-22	WIRE INSULATED	4
AR	AR	AR	A	IOI0416-14	WIRE INSULATED	4
I	I	I	I	2004998	SUPPORT WIRE	4
AR	AR	AR	A	IOI0416-13	WIRE INSULATED	3
I	I	I	I	2004039	TERMINAL HEAD	3
AR	AR	AR	A	IC06878	SILICONE COMPOUND	3
AR	AR	AR	A	IOI0416-15	WIRE INSULATED	3
AR	AR	AR	A	IOI2507-003	TAP LACING	3
AR	AR	AR	A	IOI0416-20	WIRE INSULATED	3
AR	AR	AR	A	IOI0848-1	WIRE INSULATED	3
4	4	3	3	NAG20V-6L	ASHER FLAT	3
13	13	3	3	M5E1959-20	SCREW FLAT HD CROSS RECESSED	3
4	4	4	4	M5S1957-30	SCREW PAN HD CROSS RECESSED	3
2	2	2	2	M5S1959-28	SCREW FLAT HD CROSS RECESSED	2
19	19	19	19	IOI0635-003	WASHER LOCK	2
19	19	19	19	2XO4942-OO1	WASHER PLAIN	2
19	19	19	19	OOR0159-1B	RING SEAL	2
19	19	19	19	2004942	NUT HEX	2
	I	-	-	2003584-211	SWITCH ASSEMBLY, PUSHBUTTON	2
	I	-	-	-191		2
	I	-	-	-181		2
	I	-	-	-171		2
	I	-	-	-161		2
	I	-	-	-151		2
	I	-	-	-141		2
	I	-	-	-131		2
	I	-	-	-121		2
	I	-	-	-111		2
	I	-	-	-091		2
	I	-	-	-081		2
	I	-	-	-071		2
	I	-	-	-061		2
	I	-	-	-051		2
	I	-	-	-041		2
	I	-	-	-031		2
	I	-	-	-021		2
	I	-	-	2003584-011	SWITCH ASSEMBLY, PUSHBUTTON	2
I	I	I	I	2003948-011	CONNECTOR PLATE ASSEMBLY	2
I	I	I	I	2003939-011	ADAPTER PLATE ASSEMBLY	2
2	2	2	2	0006351	GASKET PREFORMED	2
I	I	I	I	2004968-G21	HOUSING FRONT	2
QTY REQD	STY	PURCH PART NO	MANUFACTURE	DESCRIPTION	UNIT OF MEASURE	

[illegible]

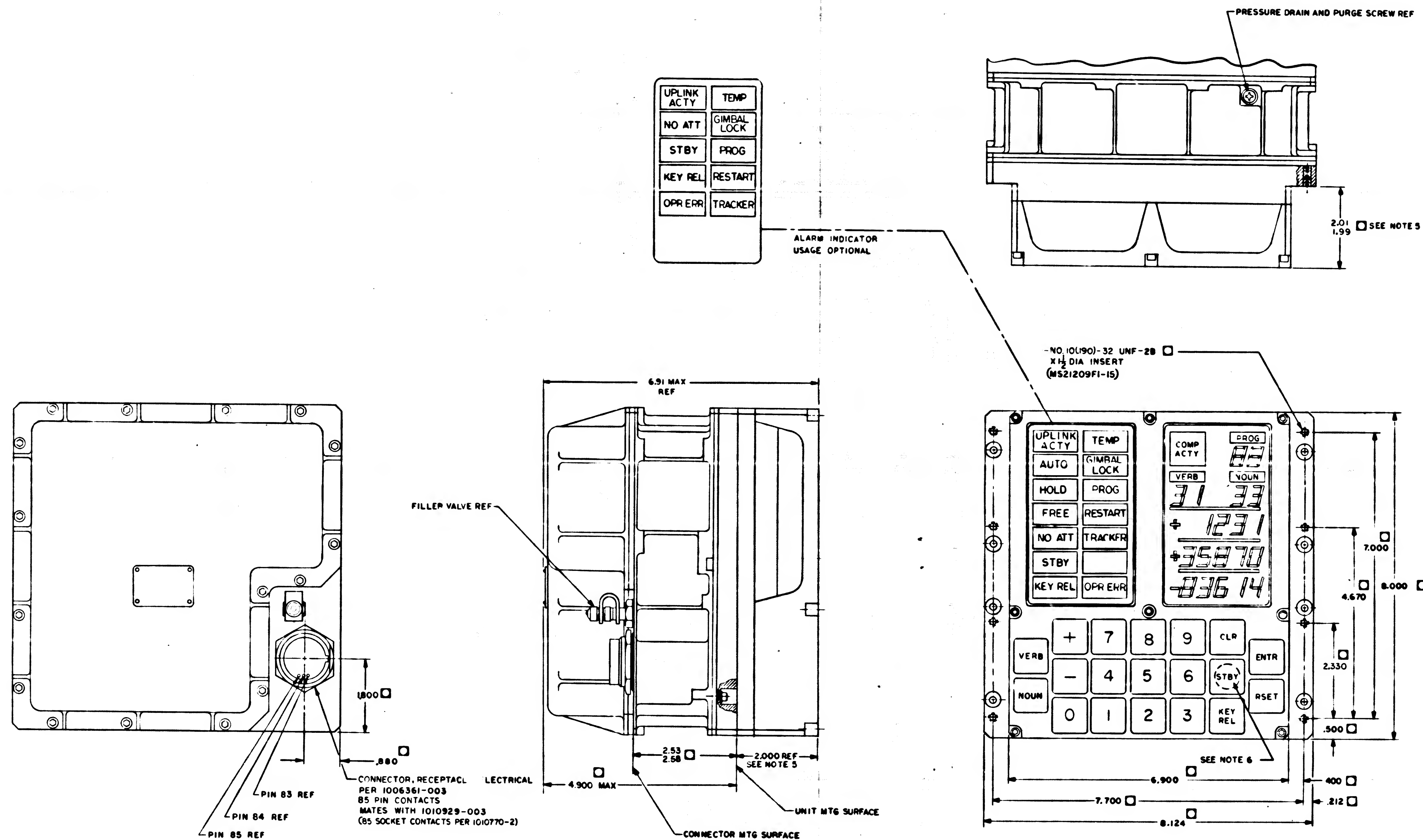


- NOTES
1. DIMENSIONS CONTROLLED BY ICD MHOI-01305-116
 2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 3. WEIGHT *See*
 4. \odot INDICATES CENTER OF GRAVITY *See*

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIG NO																																
<table border="1"> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</td> <td colspan="2">LIST OF MATERIALS</td> </tr> <tr> <td>FRACTIONS OR DECIMALS</td> <td>TOLERANCES</td> <td colspan="2">MANNED SPACECRAFT CENTER HOUSTON, TEXAS</td> </tr> <tr> <td>0.005</td> <td>0.005</td> <td colspan="2">AGC DSKY OUTLINE DRAWING</td> </tr> <tr> <td colspan="2">DO NOT SCALE THIS DRAWING</td> <td colspan="2">NASA APPROVAL: [Signature] DATE: 10/16/75</td> </tr> <tr> <td colspan="2">MATERIAL</td> <td colspan="2">CODE IDENT NO: 80230 J</td> </tr> <tr> <td colspan="2">NEXT APPR</td> <td colspan="2">SCALE: 1/1</td> </tr> <tr> <td colspan="2">USED ON</td> <td colspan="2">NOMENCLATURE NO: 2003956</td> </tr> <tr> <td colspan="2">APPLICATION</td> <td colspan="2">SHEET 1 OF 1</td> </tr> </table>				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		LIST OF MATERIALS		FRACTIONS OR DECIMALS	TOLERANCES	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		0.005	0.005	AGC DSKY OUTLINE DRAWING		DO NOT SCALE THIS DRAWING		NASA APPROVAL: [Signature] DATE: 10/16/75		MATERIAL		CODE IDENT NO: 80230 J		NEXT APPR		SCALE: 1/1		USED ON		NOMENCLATURE NO: 2003956		APPLICATION		SHEET 1 OF 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		LIST OF MATERIALS																																	
FRACTIONS OR DECIMALS	TOLERANCES	MANNED SPACECRAFT CENTER HOUSTON, TEXAS																																	
0.005	0.005	AGC DSKY OUTLINE DRAWING																																	
DO NOT SCALE THIS DRAWING		NASA APPROVAL: [Signature] DATE: 10/16/75																																	
MATERIAL		CODE IDENT NO: 80230 J																																	
NEXT APPR		SCALE: 1/1																																	
USED ON		NOMENCLATURE NO: 2003956																																	
APPLICATION		SHEET 1 OF 1																																	

2003956 B

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 26-04 DR. [Signature] CHK. [Signature] ALD-D	8/78	[Signature]
B	REVISED PER TORR 350-6 DR. [Signature] CHK. [Signature] [Signature]	1-88	[Signature]



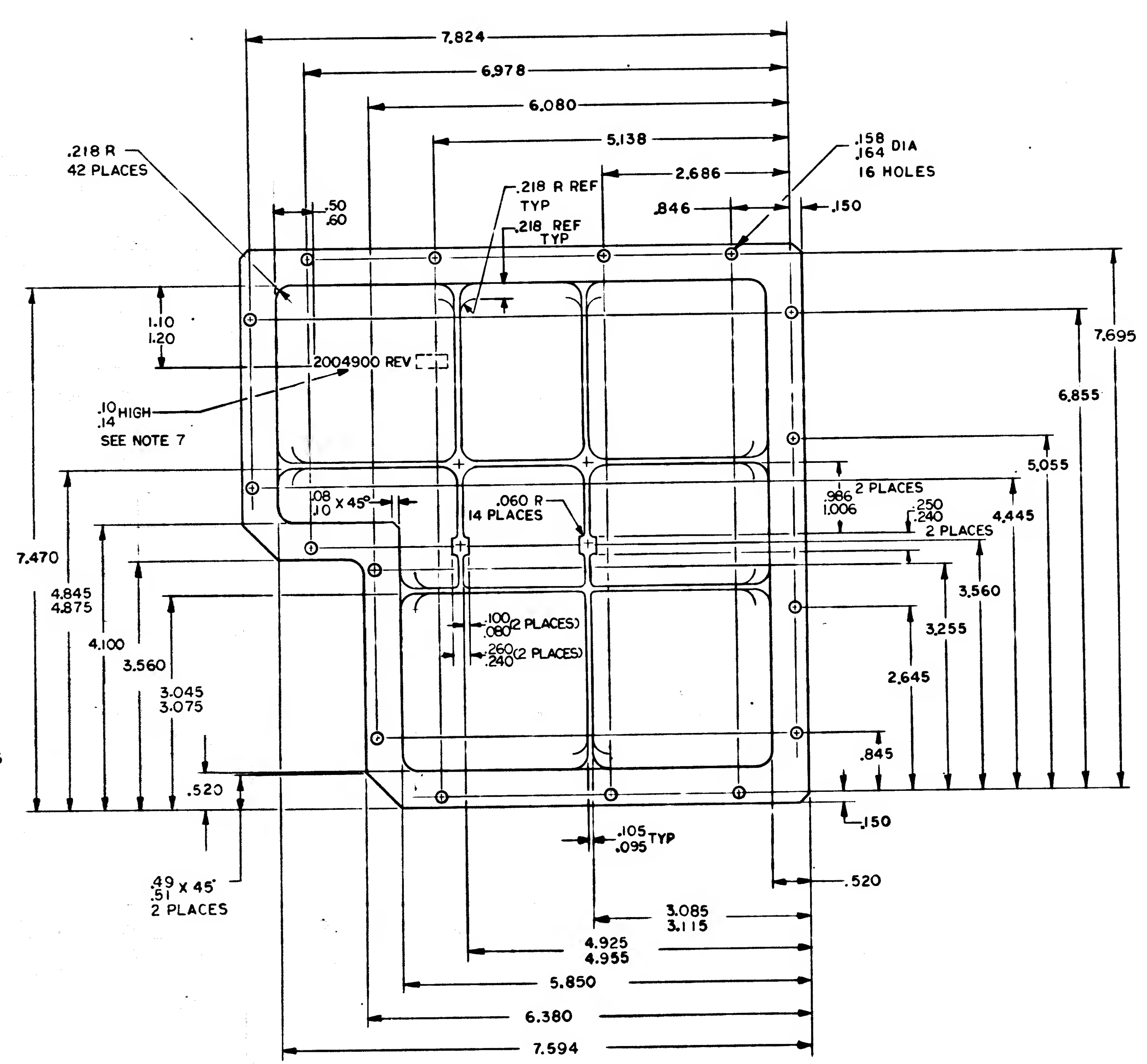
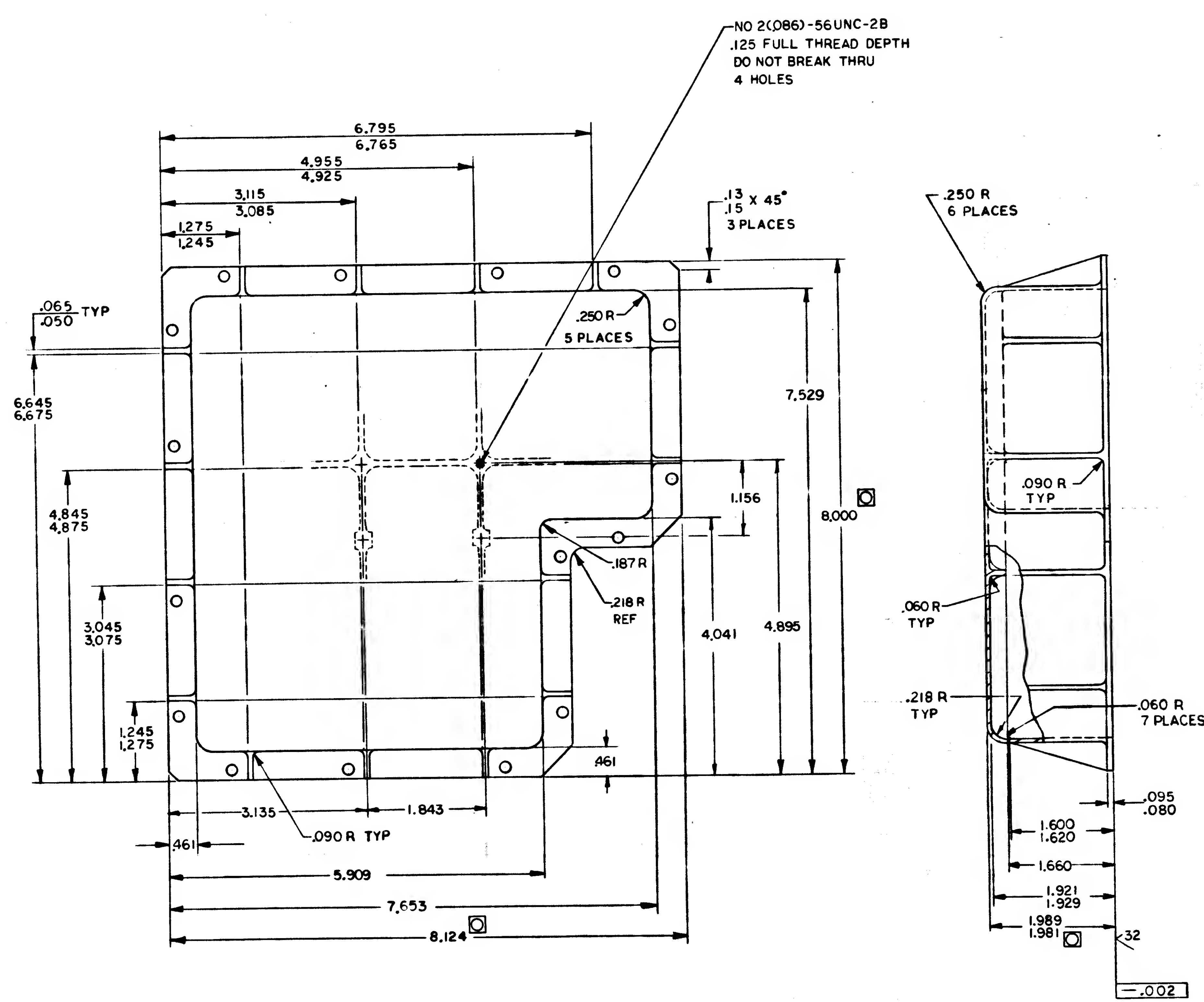
NOTES

1. DIMENSIONS CONTROLLED BY ICD MHOI-01305-116
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. WEIGHT *See*
4. \odot INDICATES CENTER OF GRAVITY *Small letter*
5. THE 2.01/1.99 DIMENSION APPLIES TO ALL CONFIGURATION UNIVERSAL DSKYS WITH THE EXCEPTION OF THE 2003985-061, 2003950-031, 2003994-021 & SUBSEQUENT CONFIGURATIONS IN WHICH THE SURFACE OF THE I/L & COVER ASSY 2003899-011 SHALL PROTRUDE BEYOND THE MAXIMUM SHOWN UP TO A MAXIMUM OF .09
6. THE 2003985-061, 2003950-031, 2003994-021 & SUBSEQUENT CONFIGURATIONS SHALL REFLECT "PRO" IN KEY POSITION INDICATED.

2003956 B

2003956 B

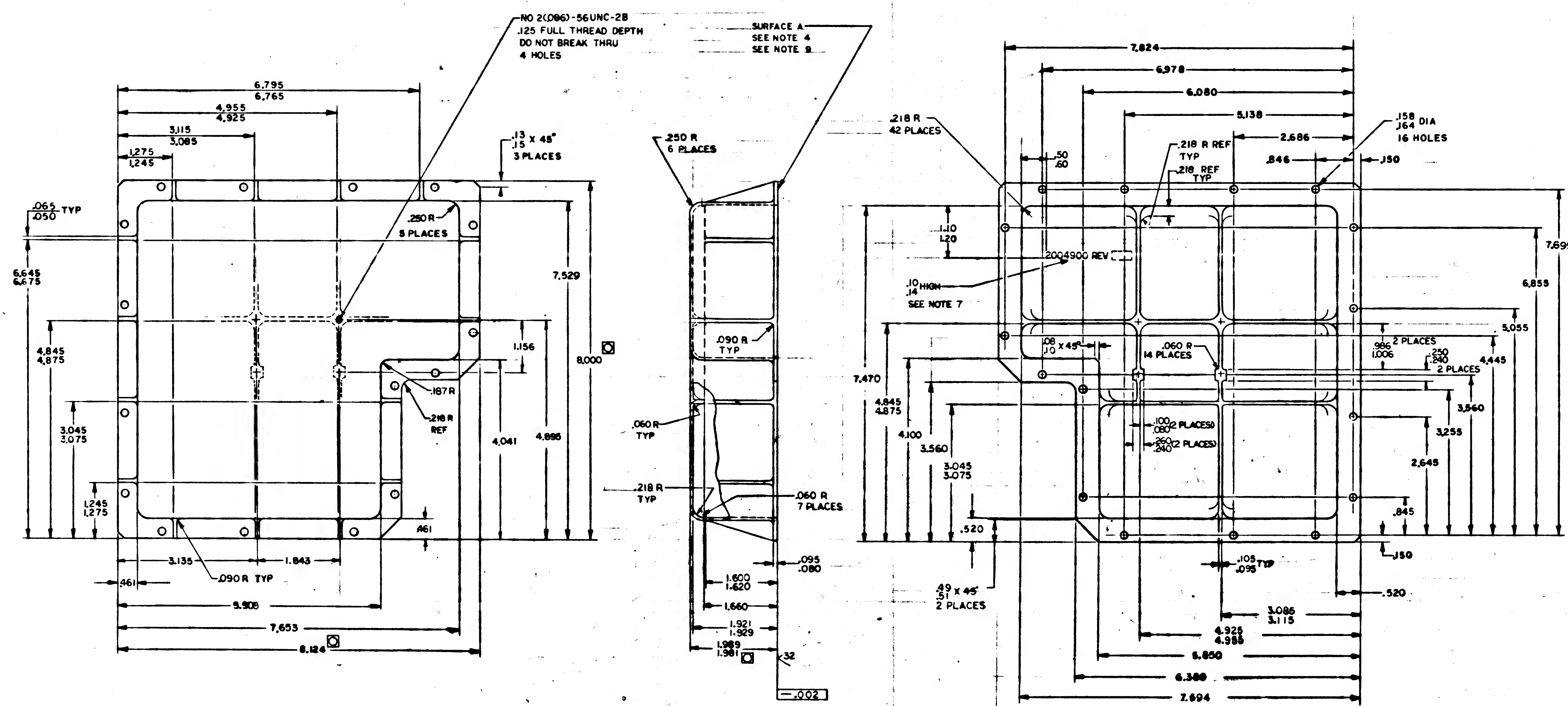
QTY REQD	PART OR IDENTIFYING NO	DESCRIPTION	FILE NO
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: [Signature] DATE: 8/78		AGC DSKY OUTLINE DRAWING	
CHECKED: [Signature] DATE: 8/78		NESA DRAWING NO 2003956	
APPROVAL: [Signature] DATE: 8/78		NESA DRAWING NO 2003956	
NESA APPROVAL: [Signature] DATE: 8/78		CODE IDENT NO 80230 J	
NESA APPROVAL: [Signature] DATE: 8/78		SCALE: 1:1	
NESA APPROVAL: [Signature] DATE: 8/78		SHEET OF 1	



- NOTES
1. MATL: 7075-T6 AL PER QQ-A-250/12, TEMP T6
 2. REMOVE BURRS AND SHARP EDGES .005/.020
 3. SURFACE FINISH: 125 EXCEPT WHERE OTHERWISE SHOWN
 4. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
 5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 6. DIMENSIONS CONTROLLED BY ICD MH01
 7. MARK AS SHOWN: BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2 USING INK IC06271-10

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
COVER, REAR AGC DSKY			
2003900	USED ON	SCALE 1/1	WT
APPLICATION		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	INSTRUMENTATION LAB CAMBRIDGE, MASS	DATE	2004900
TOLERANCES ON			
FRACTIONS	DECIMALS	ANGLES	
=	.005	= 1°	
DO NOT SCALE THIS DRAWING	CHECKED	DATE	
MATERIAL	APPROVAL	DATE	
SEE NOTE 1			
HEAT TREATMENT	NONE	NASA APPROVAL	DATE
FINAL FINISH	SEE NOTE 4	MIT APPROVAL	DATE

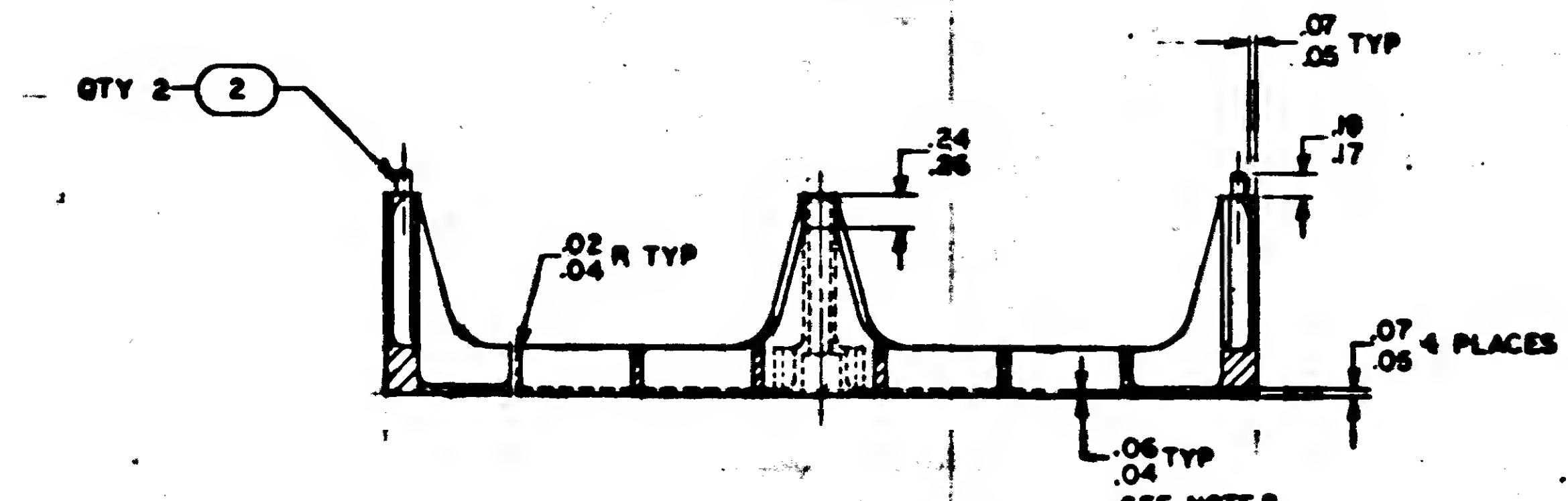


NOTES

1. MATL: 7075-76 AL PER Q/Q-A-250/12, TEMP 76'
2. REMOVE BURRS AND SHARP EDGES Q/QS/Q/QS
3. SURFACE FINISH \sqrt{A} EXCEPT WHERE OTHERWISE SHOWN
4. CHROMATE SURFACE \sqrt{A} PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
6. \sqrt{A} DIMENSIONS CONTROLLED BY ICD MM-01-01305-118
7. MARK AS SHOWN WHITE CHARACTERS PER NDI002019 AND NDI002122,
TYPE II, CLASS 2 USING AN (106272-11)
8. ANODIZE PER MIL-A-8625 TYPE II, DYED BLACK
EXCEPT SURFACE \sqrt{A} AND HOLES
9. NO SCRATCHES PERMISSIBLE ON SURFACE \sqrt{A}
10. IDENTIFY WITH PART NO. PER NDI002019

QTY REQD		PART OR REPLACEMENT NO.		NOMENCLATURE OR DESCRIPTION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS $\pm .005$ ANGLES $\pm 1^\circ$		CITY INSTRUMENTATION LAB CAMDEN, NJ 08105 DES. NO. DRAWN: <i>Richard</i> DATE CHECKED: <i>John Smith</i> APPROVED: <i>John Smith</i> APPROX: <i>John Smith</i>		LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS COVER, REAR AGC SKY	
DO NOT SCALE THIS DRAWING MATERIAL 2003965 2003900		SEE NOTE 1 MEAT TREATMENT NONE NEXT ARMY USED ORG APPLICATION SEE NOTE 4		CODE IDENT NO. SIZE 802300 E 2004900 SCALE 1/1 WT. (LBS.) L. (IN)	

2		MSI6555-025		PIN, DOWEL		2	
1		2004929-001		COVER, FRONT			
QTY REQD		PART OR IDENTIFYING REL		NOMENCLATURE OR DESCRIPTION		PINQ NO	
011		LIST OF MATERIALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		MILY SUPERINTENDING LIAISON		BANNED SPACECRAFT CENTER			
FRACTIONS		DECIMALS		HUMANITARIAN TERMS			
DO NOT SCALE THIS DRAWING		DO NOT SCALE THIS DRAWING		COVER, FRONT			
SEE NOTE 1		SEE NOTE 1		AGC DSKY			
2003900		2003900		2003900		2003900	
NEXT ASBY		NEXT ASBY		NEXT ASBY		NEXT ASBY	
APPLICATION		APPLICATION		APPLICATION		APPLICATION	

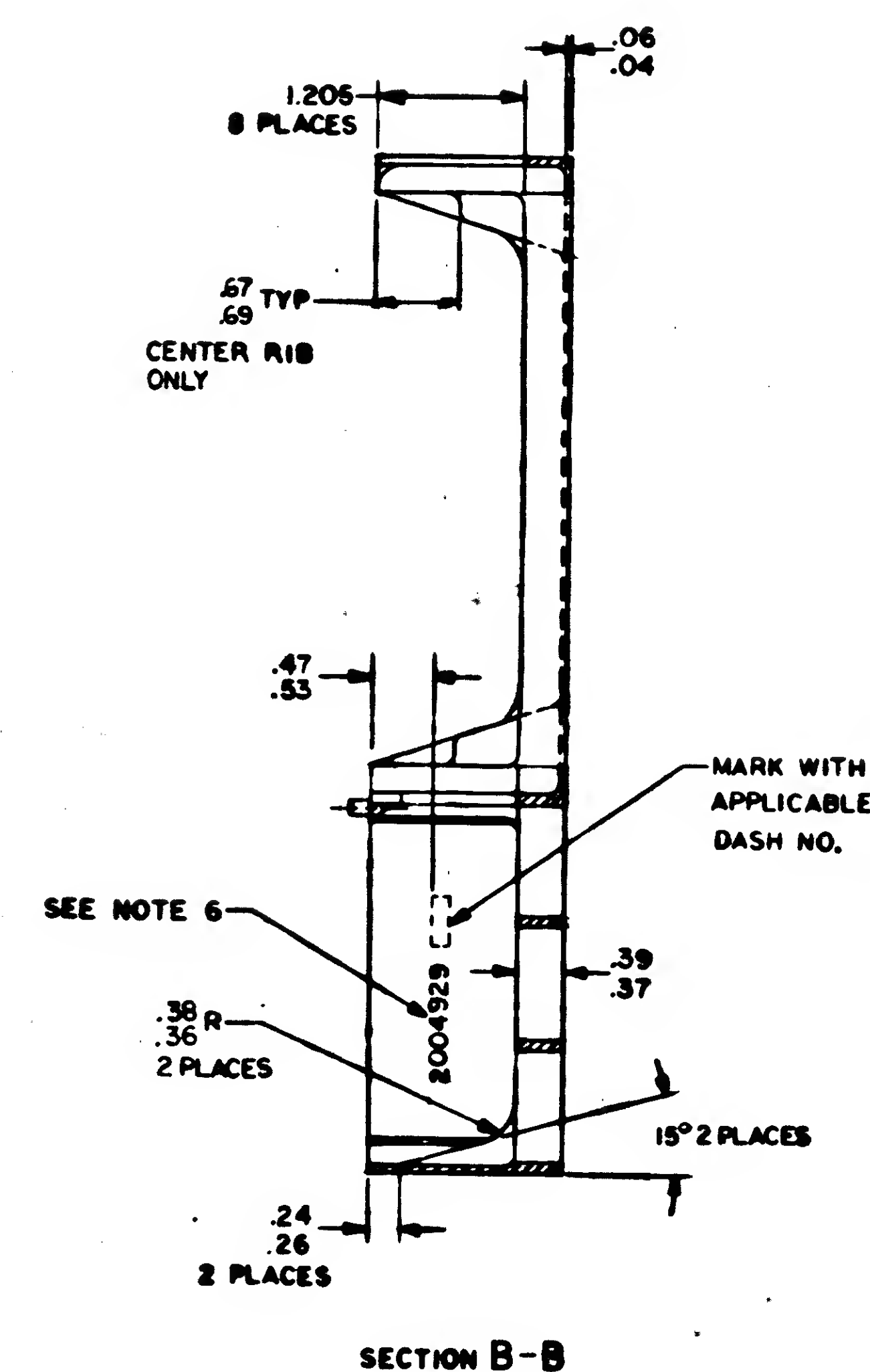
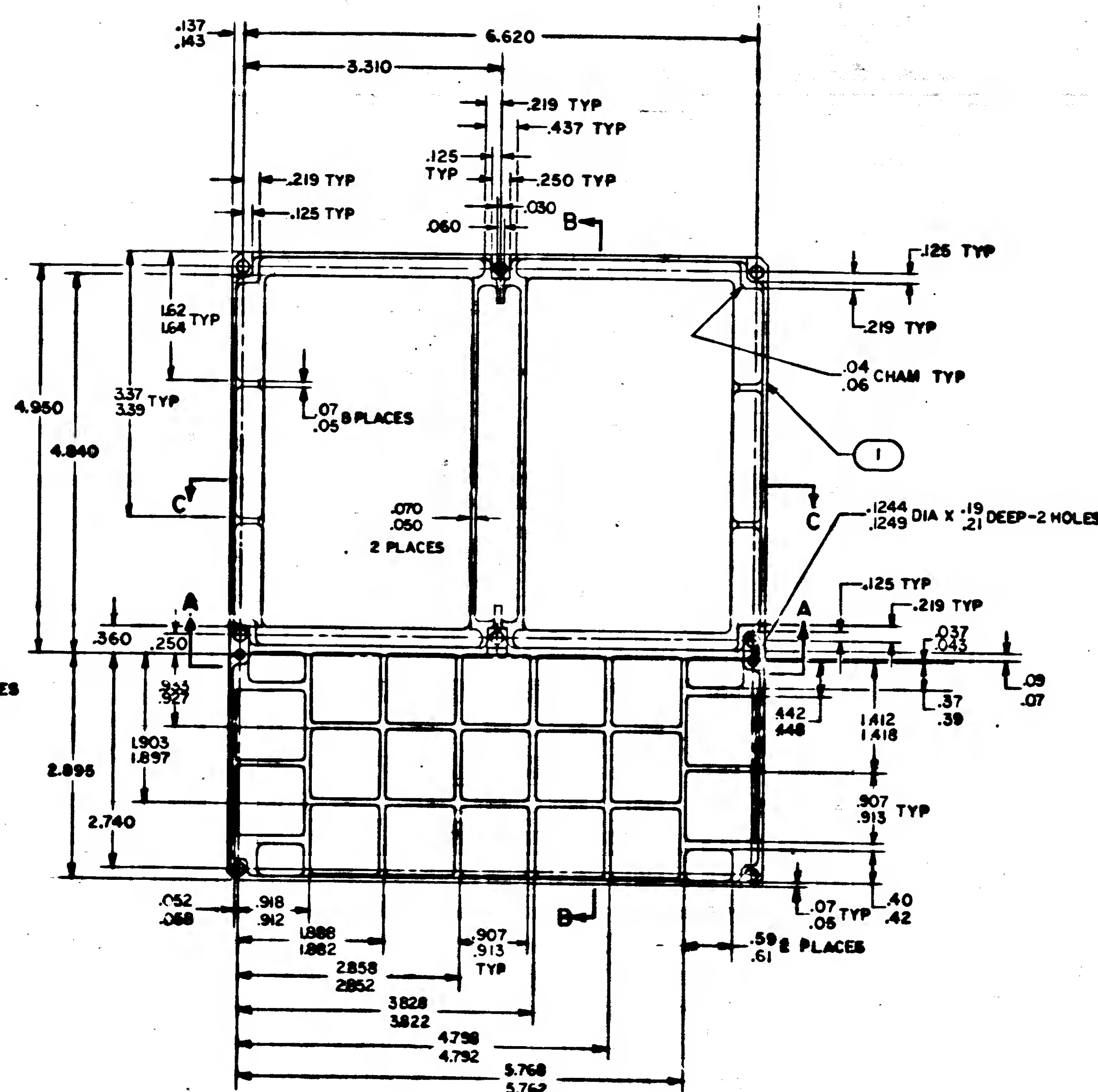
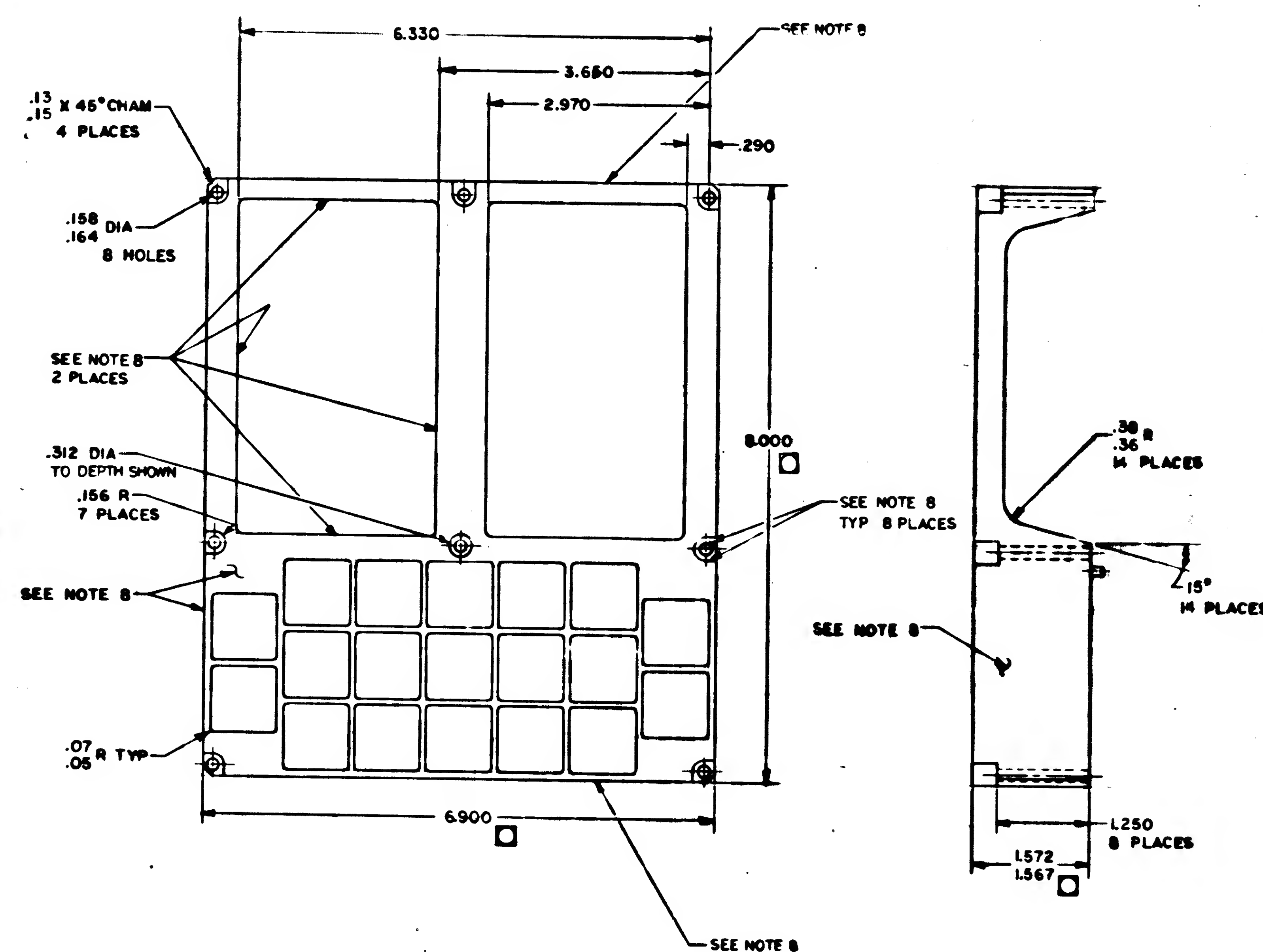


NOTES

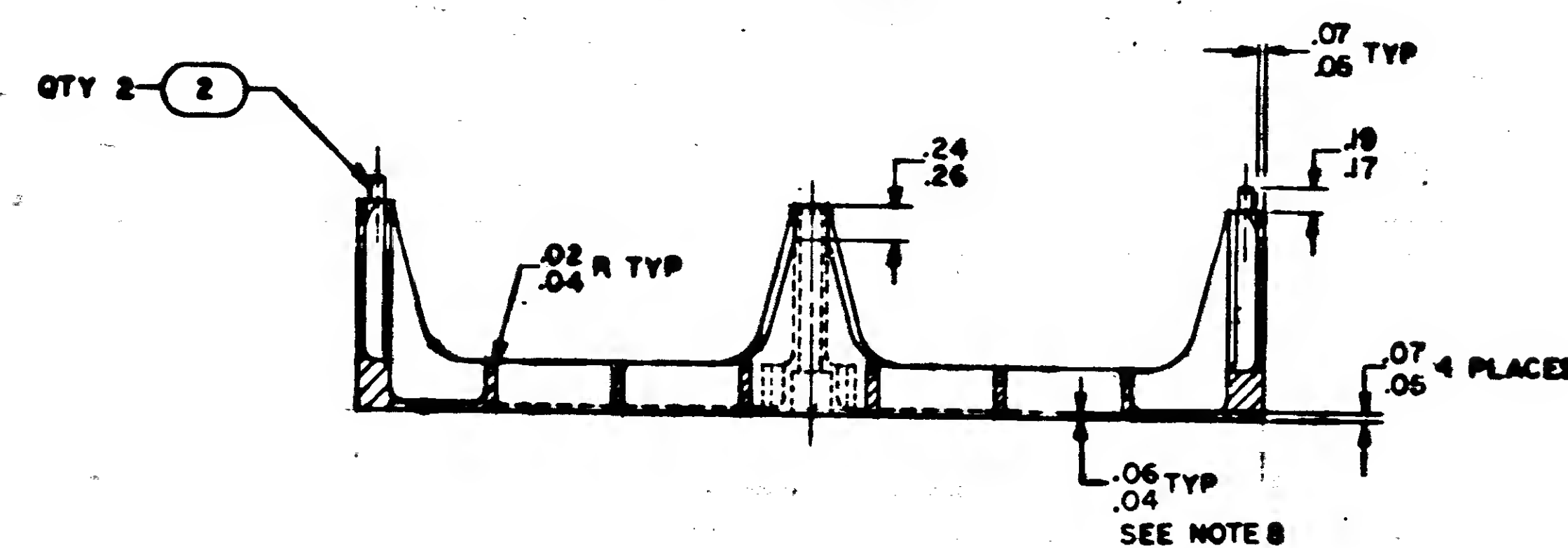
1. MATL:G061-T6-AL PER QQ-A-250/I,ITEMP 6
2. REMOVE BURRS AND SHARP EDGES.G05/GI5
3. ALL SURFACES 12/
4. CHROMATE PER MIL-C-5541,TYPE II,GRADE C,CLASS B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
6. MARK:1047-4-MIG- BLACK CHARACTERS PER
ND10CQ2019 AND ND10C212,TYPE II,CLASS 2
USING INK 1006271-10
7. DIMENSIONS CONTROLLED BY RCD MH01
8. UN-INDICATED SURFACES WITH 1008003-1
RED GRAY EPOXY ENAMEL PER QQ-C237A
9. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-DR-70377

[illegible]

SECTION C-C



SECTION B-B

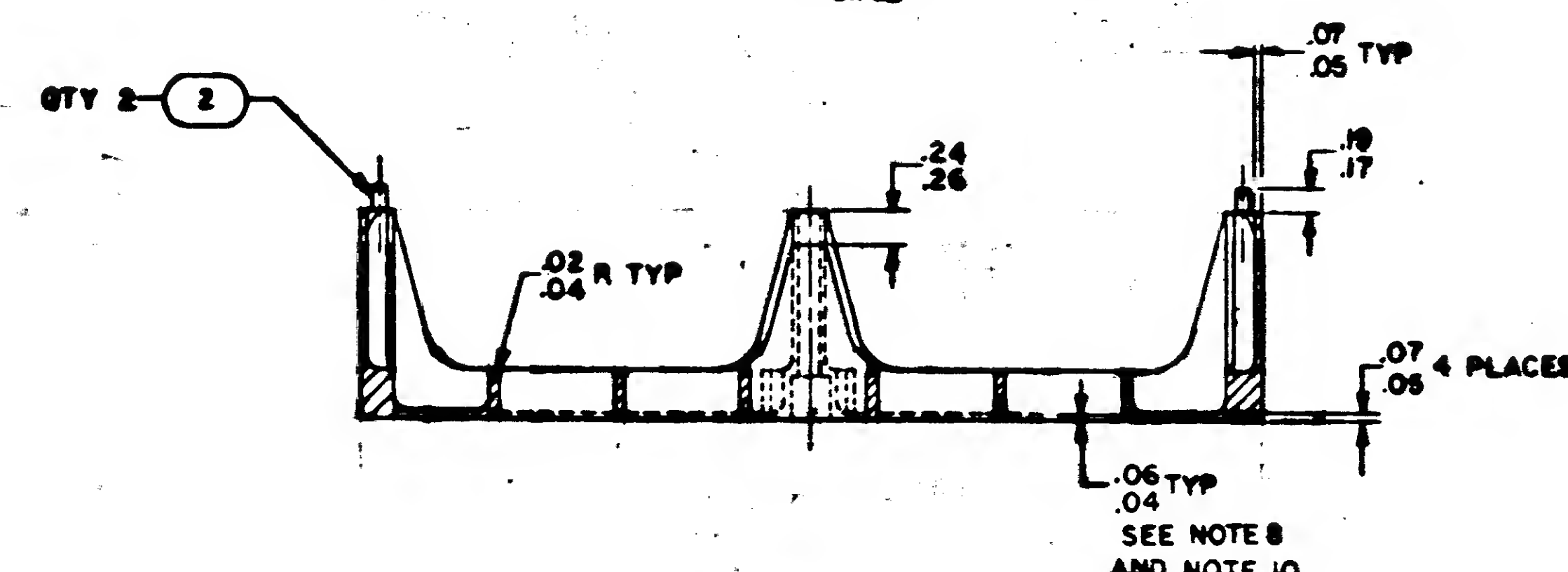
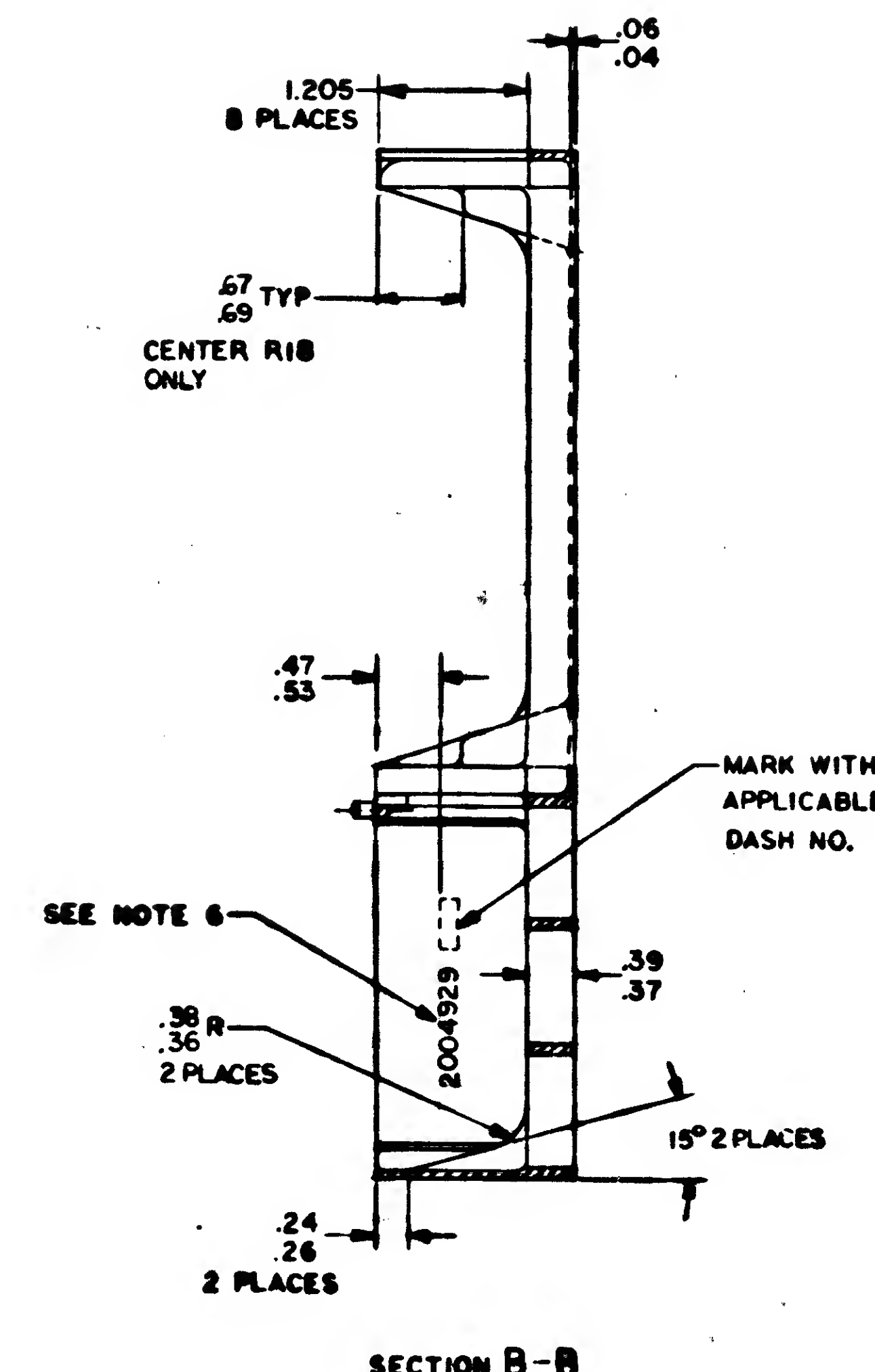
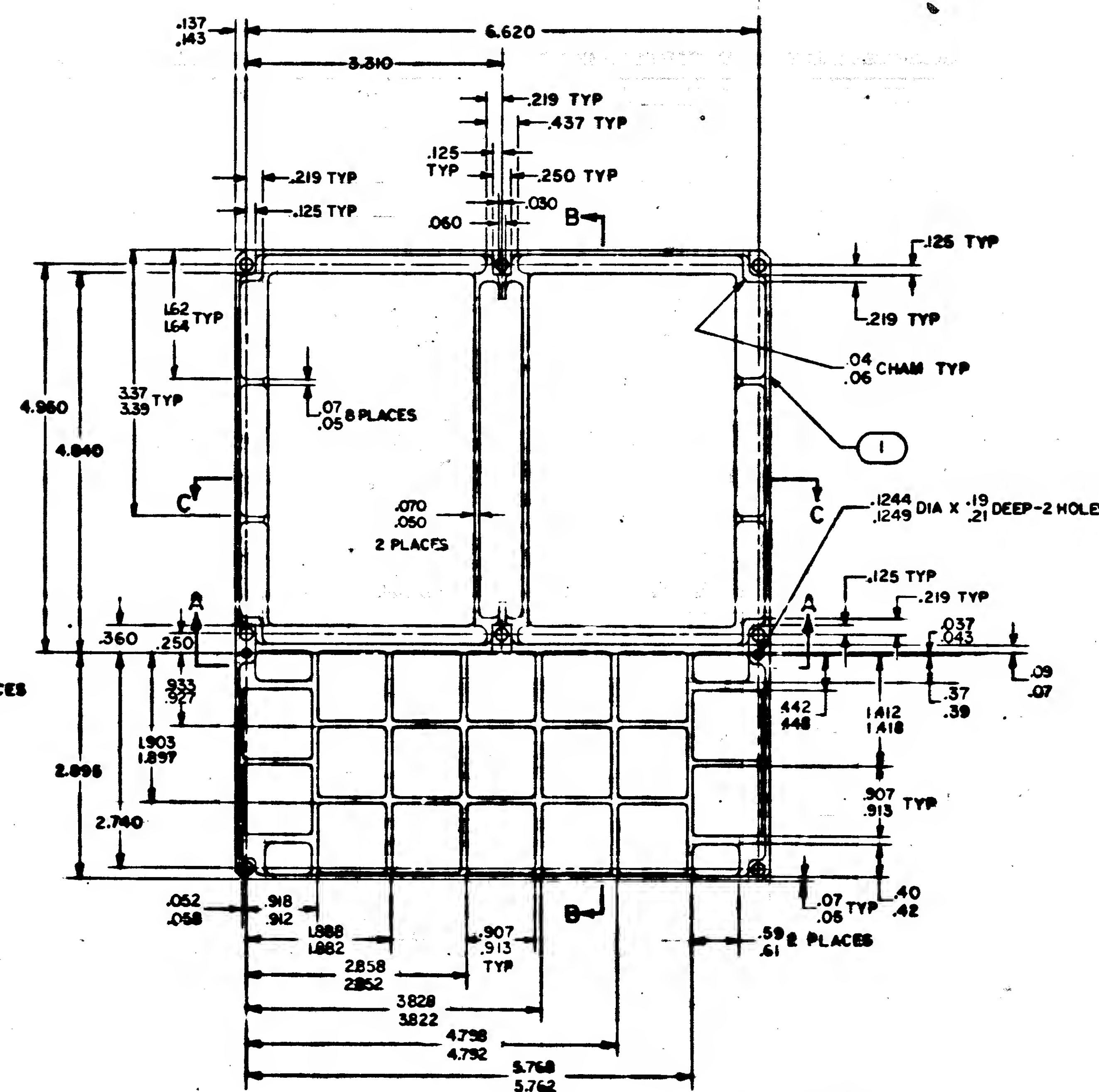
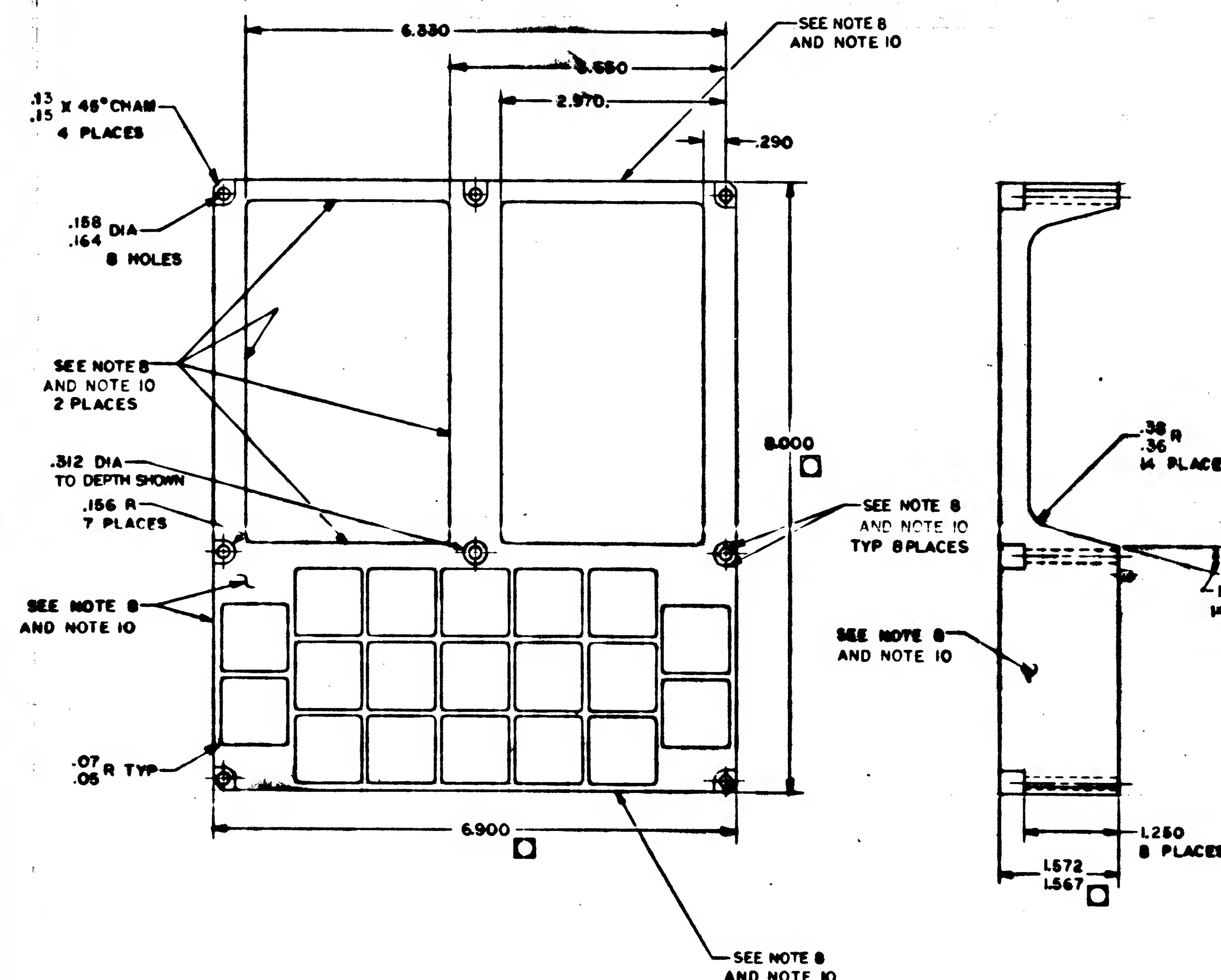


SECTION A-A

NOTES

1. MATL:6061-T6-AL PER QQ-A-250/11,TEMP6
2. REMOVE BURRS AND SHARP EDGES,005/015
3. ALL SURFACES IF5
4. CHFMQATC 25% MIL-C-5541,TYPE II,GRADE B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .005 MAX
6. MARK:1/4" HIGH BLACK CHARACTERS PER NC C02019 AND ND100212,TYPE II,CLASS 2
7. US:NG IN 1706271-10
8. DIMENSIONS CONTROLLED BY ICD MHQI-01305-116
9. PAINT INDICATED SURFACES WITH 1008809-1
10. RED GRAY EPOXY ENAMEL PER 1002279
11. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2	MS16556-628	PIN, DOWEL	2
1	2004928-OOI	COVER, FRONT	1
QTY REQD	PART OR IDENTIFYING INB.	NOMENCLATURE OR DESCRIPTION	PHO NO
OOI	LIST OF MATERIALS		
EIT INTERPOLATION LAB Columbia, Miss.		MAINED SPACECRAFT CENTER HOLLYMAN, TEXAS	
DRAWING NO. DATE MADE BY CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i>		COVER, FRONT AGC DSKY	
NASA APPROVAL <i>[Signature]</i> MILT APPROVAL <i>[Signature]</i>		CODE 800230 800230	DESK DRAWING NO 2004929
EIT APPROVAL		DESK NO.	DESK NO.



SECTION A-A

-021	1 THRU 10
-011	1 THRU 9
DASH NO.	APPLICABLE NOTES
NOTE APPLICATION	

NOTE

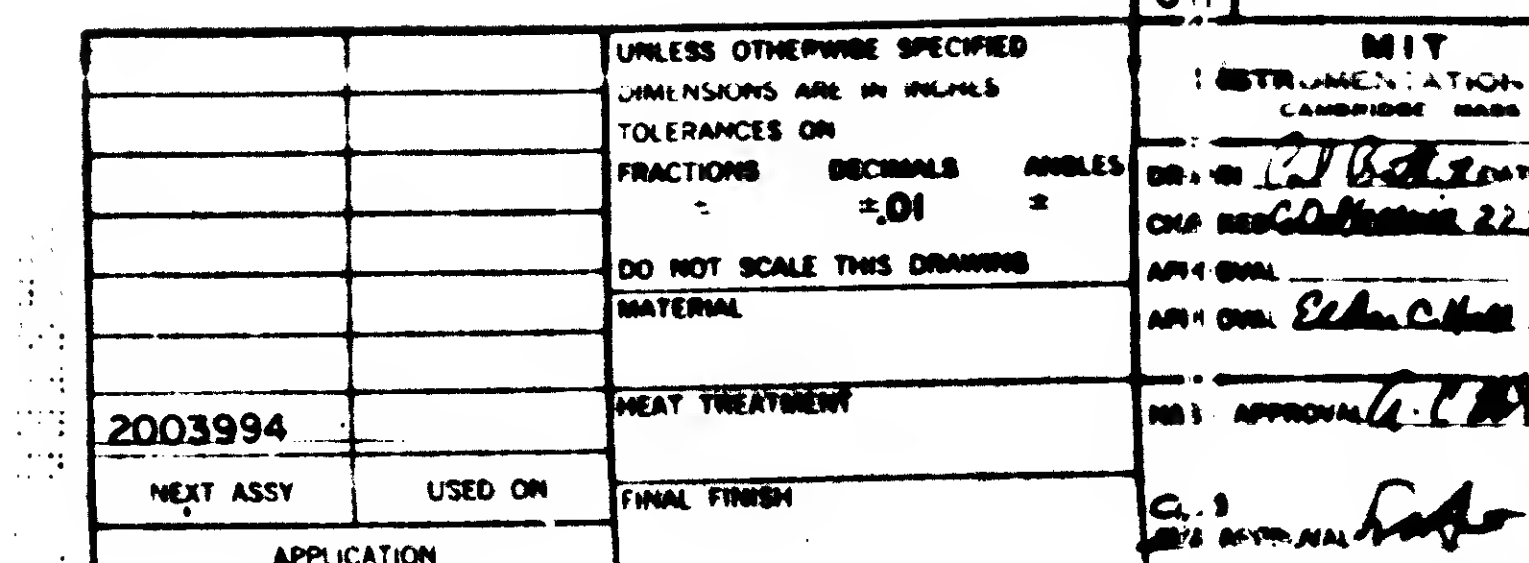
1. MATL:060176-AL PER QO A-250/1,TEMP 6
2. REMOVE BURRS AND SHARP EDGES 005/O15
3. ALL SURFACES 125
4. CHPMOTE PER MIL-C-5541,"TYPE II, GRADE C, CLASS B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
AND RADI TO 1/8" MIN
6. MARK: 1/4" HIGH BLACK CHARACTERS PER
ND002019 AND ND100212, TYPE II, CLASS 2
USING INK 1006271-10
7. DIMENSIONS CONTROLLED BY YCD M90H-1 1/8 - 11/16
8. 1/8" INDICATED SURFACES WITH 1008809-1
SURFEROV FINISH PER 1008809-1
9. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327
10. FINAL COAT - ODCATED SURFACES PER ND1002277
USING INK 101343-03

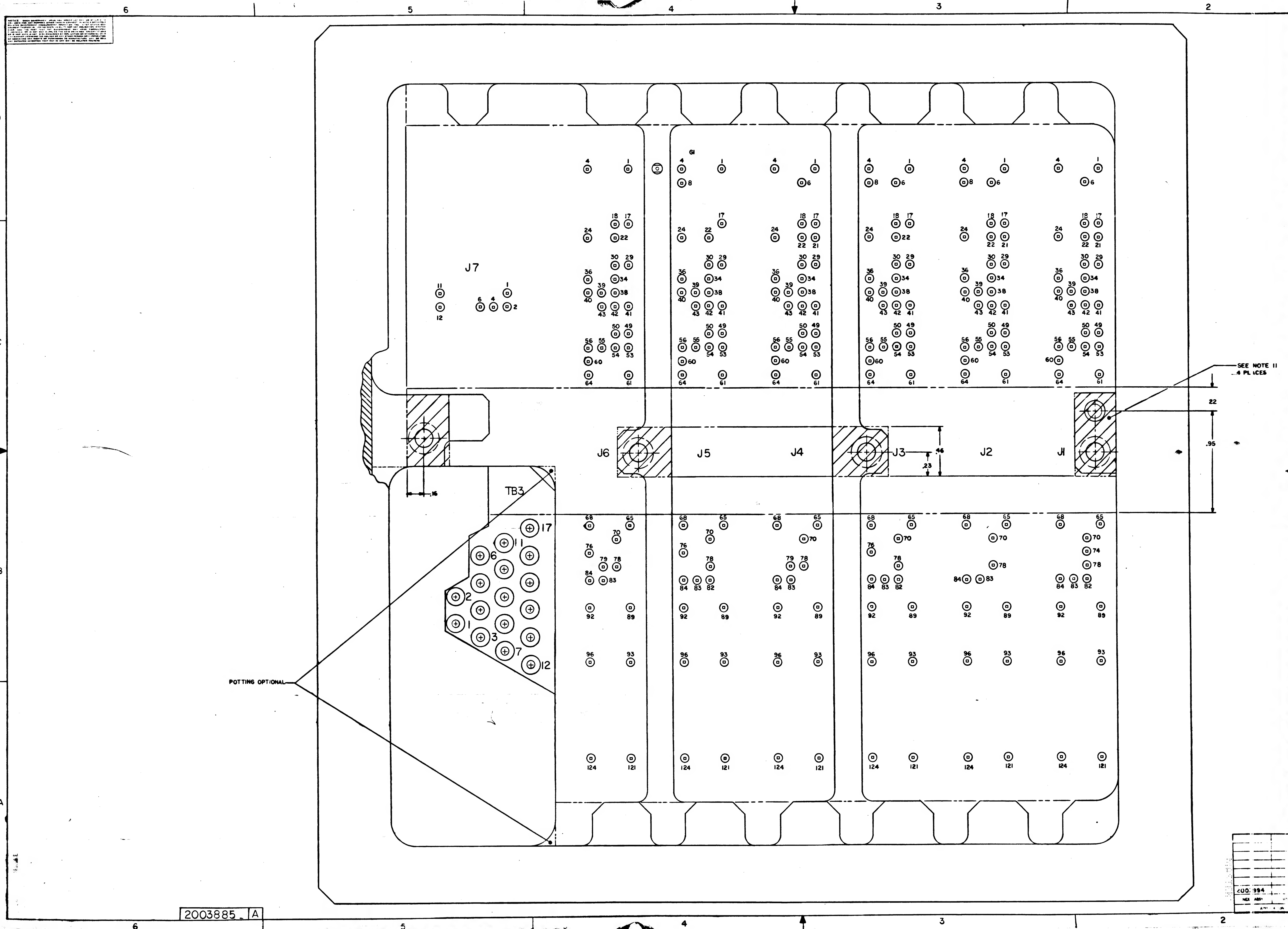
2	2	MS16555-625	PN, DOWEL	2
1	1	2004929-001	COVER, FRONT	1
QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PN
021	011			
LIST OF MATERIALS				
M1Y INSTRUMENTATION LAB Columbus, Miss. DATE: 10/1/68 BY: [Signature]		MANHATTAN SPACECRAFT CENTER Houston, Texas		
APPROVALS: DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] APPROVAL: [Signature]		COVER, FRONT AGC DSKY		
PART APPROVED BY: [Signature] PART APPROVED BY: [Signature] PART APPROVED BY: [Signature]		COAT PART NO. 1 80230 J	PART APPROVED NO. 2004929	

MINSTER

2004929

D





5003885

2003885

INITIAL RELEASE 700 3173

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A1		J12-166	16	OPT	30	AR	J7-6		
A2		-167	16	OPT	30		J6-43		
A3		-160	17	WHT	26		-18		
A4		-159	16	OPT	30		-34		
A5		-154					-40		
A6		-153					-50		
A7		-148	16	OPT	30		-39		
A8		-147	17	WHT	26		-38		
A9		-144	16	OPT	30		-34		
A10		-141					-41		
A11		-136					-29		
A12		-135					-55		
A13		-187					-42		
A14		-210	16	OPT	30		-49		
A15		-182	17	WHT	26		-60		
A16		-204	16	OPT	30		-56		
A17		-192					-17		
A18		-176					-36		
A19		-175					-22		
A20		-174					J6-30		
A21		-170					J7-4		
A22		-169					J6-24		
A23		-168					J6-53		
A24		-164					J5-43		
A25		-163					-34		
A26		-162					-36		
A27		-161					-22		
A28		-158					-56		
A29		-157					-39		
A30		-156	16	OPT	30		-24		
A31		-155	17	WHT	26		-8		
A32		-152	16	OPT	30		-42		
A33		-151					-40		
A34		-150	17	WHT	26		-38		
A35		-149	16	OPT	30		-30		
A36	SEE NOTE 10	-146					-50		SEE NOTE 10
A37		-145					-55		
A38		-144					-49		
A39		-143					-29		
A40		-140					-54		
A41		-139					-53		
A42		-138					-41		
A43		-137	16	OPT	30		-17		
A44		-134	17	WHT	26		J5-60		
A45		-133	16	OPT	30		J4-43		
A46		-132					J4-6		
A47		-131					J6-84		
A48		-130					J4-24		
A49		-129					J4-39		
A50		-128					J4-17		
A51		-127					J6-83		
A52		-126					J4-50		
A53		-125					J4-40		
A54		-124					J4-36		
A55		-123					J6-78		
A56		-122					J4-30		
A57		-121					J4-29		
A58		-120					J4-18		
A59		-119					J6-70		
A60		-118					J4-34		
A61		-117					J4-38		
A62		-116					J4-21		
A63		-115					J6-76		
A64		-114					J4-55		
A65		-113					-41		
A66		-112					-42		
A67		-111					-83		
A68		-110					-53		
A69		-109					-54		
A70		-108					-49		
A71		-107					-70		
A72		J12-106	16	OPT	30	AR	J4-60		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A73		J12-105	16	OPT	30	AR	J4-56		
A74		-104					J4-22		
A75		-103					J3-76		
A76		-102					-17		
A77		-101	16	OPT	30		-24		
A78		-100	17	WHT	26		-18		
A79		-99	16	OPT	30		-70		
A80		-98	16	OPT	30		-40		
A81		-97	16	OPT	30		-36		
A82		-96	17	WHT	26		J3-6		
A83		-95	16	OPT	30		J2-84		
A84		-94	16	OPT	30		J3-22		
A85		-93	16	OPT	30		J3-30		
A86		-92	17	WHT	26		J3-8		
A87		-91	16	OPT	30		J2-83		
A88		-90	16	OPT	30		J3-39		
A89		-89	16	OPT	30		J3-43		
A90		-88	17	WHT	26		J3-38		
A91		-87	16	OPT	30		J1-78		
A92		-86					J3-56		
A93		-85					J3-42		
A94		-84					J3-34		
A95		-83					J1-74		
A96		-82					J3-60		
A97		-81	16	OPT	30		J3-55		
A98		-80	17	WHT	26		J3-60		
A99		-79	16	OPT	30		J1-70		
A100		-78					J3-41		
A101		-77					J3-29		
A102		-76					J3-54		
A103		-75					J3-49		
A104		-74					J6-79		
A105		-73					J5-76		
A106		-72					J3-53		
A107		-71	16	OPT	30		J2-60		
A108		-70	17	WHT	26		J2-8		
A109		-69	16	OPT	30		J2-18		
A110		-68					J5-70		
A111		-67					J5-84		
A112		-66					J2-56		
A113		-65					J2-24		
A114		-64	16	OPT	30		J2-36		
A115		-63	17	WHT	26		J2-6		
A116		-62	16	OPT	30		J5-83		
A117		-61					J5-78		
A118		-60					J2-21		
A119		-59					J2-30		
A120		-58					J2-40		
A121		-57					J2-34		
A122		-56					J5-82		
A123		-55					J4-75		
A124		-54					J2-50		
A125		-53					J2-39		
A126		-52					J2-43		
A127		-51					J2-22		
A128		-50					J4-78		
A129		-48					J2-55		
A130		-47					J2-42		
A131		-46					J2-38		
A132		-45					J2-29		
A133		-44					J3-84		
A134		-43					J3-83		
A135		-42					J2-54		
A136		-41					J2-49		
A137		-40					J2-41		
A138		-39					J6-77		
A139		-38					J3-78		
A140		-37					J3-82		
A141		-36					J2-53		
A142		-35					J1-24		
A143		-34	16	OPT	30		J1-17		
A144		J12-33	17	WHT	26	AR	J1-6		

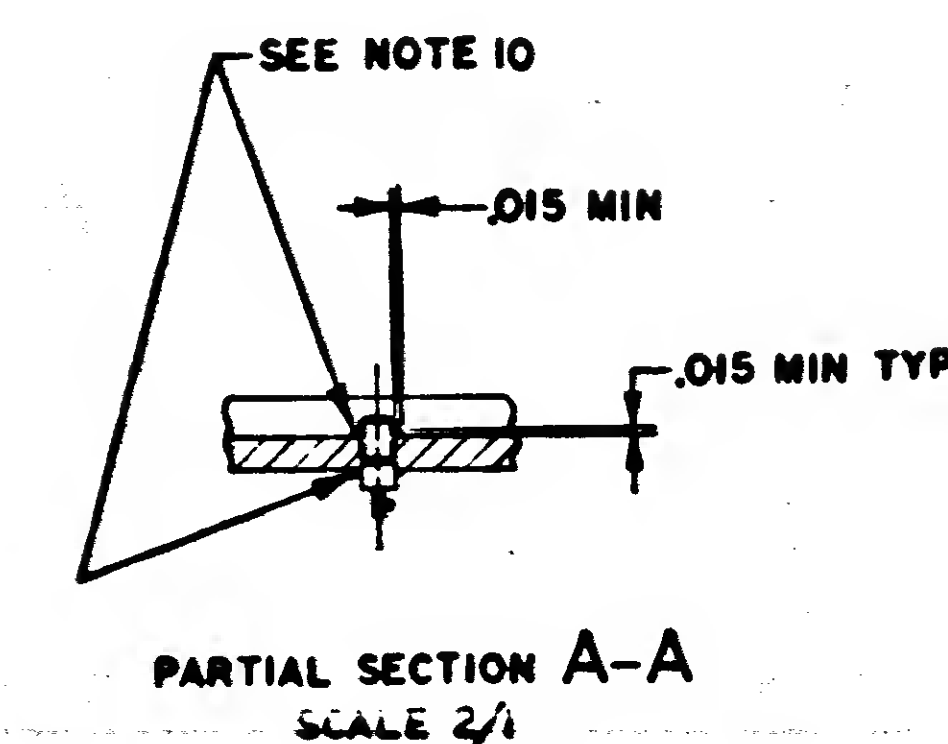
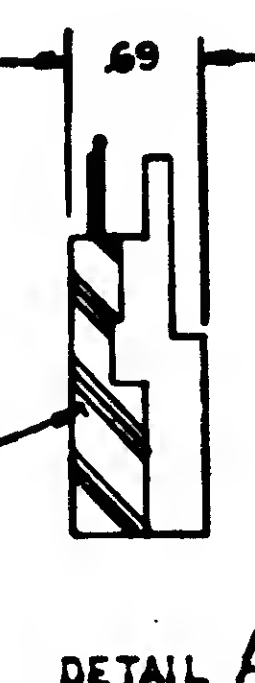
LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A145		J12-32	16	OPT	30	AR	J2-78		
A146		-31					J2-70		
A147		-30					J1-53		
A148		-29					-36		
A149		-28					-21		
A150		-27					-22		
A151		-25					-84		
A152		-24					-29		
A153		-23					-39		
A154		-22					-34		
A155	SEE NOTE 10	-21					-30		SEE NOTE 10
A156		-18					-55		
A157		-17					-43		
A158		-16					-49		
A159		-15					J1-18		
A160		-13					J4-84		
A161		-12					J1-56		
A162		-11					-50		
A163		-10					-41		
A164		-9					-40		
A165		-7					-83		
A166		-6					-60		
A167		-5					-54		
A168		-4					-38		
A169		-3					-42		
A170		J12-1	16	OPT	30		J1-82		
A171		J12-183	17	WHT	26	AR	G1		SEE NOTE 13

2003885 A

1/2003885

QTY REQD	PART OR IDENTIFYING NO.	DATE	REVISION OR DESCRIPTION
LIST OF MATERIALS		MATERIALS	
DIMENSIONS ARE IN INCHES		TOLERANCES ON FRACTIONS DECIMALS ANGLES	
DO NOT SCALE THIS DRAWING		MATERIAL	
HEAT TREATMENT		FINAL FINISH	
APPLICATION		SCALE NONE	
2003994		80230 J	
NEXT ASSY		USED ON	
APPLICATION		SCALE NONE	
2003994		80230 J	
NEXT ASSY		USED ON	
APPLICATION		SCALE NONE	

		REVISIONS		26235-	
SYM	ZONE	DESCRIPTION	DR	CHK	DATE



2003949	-
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Master

1952

003949

5

4

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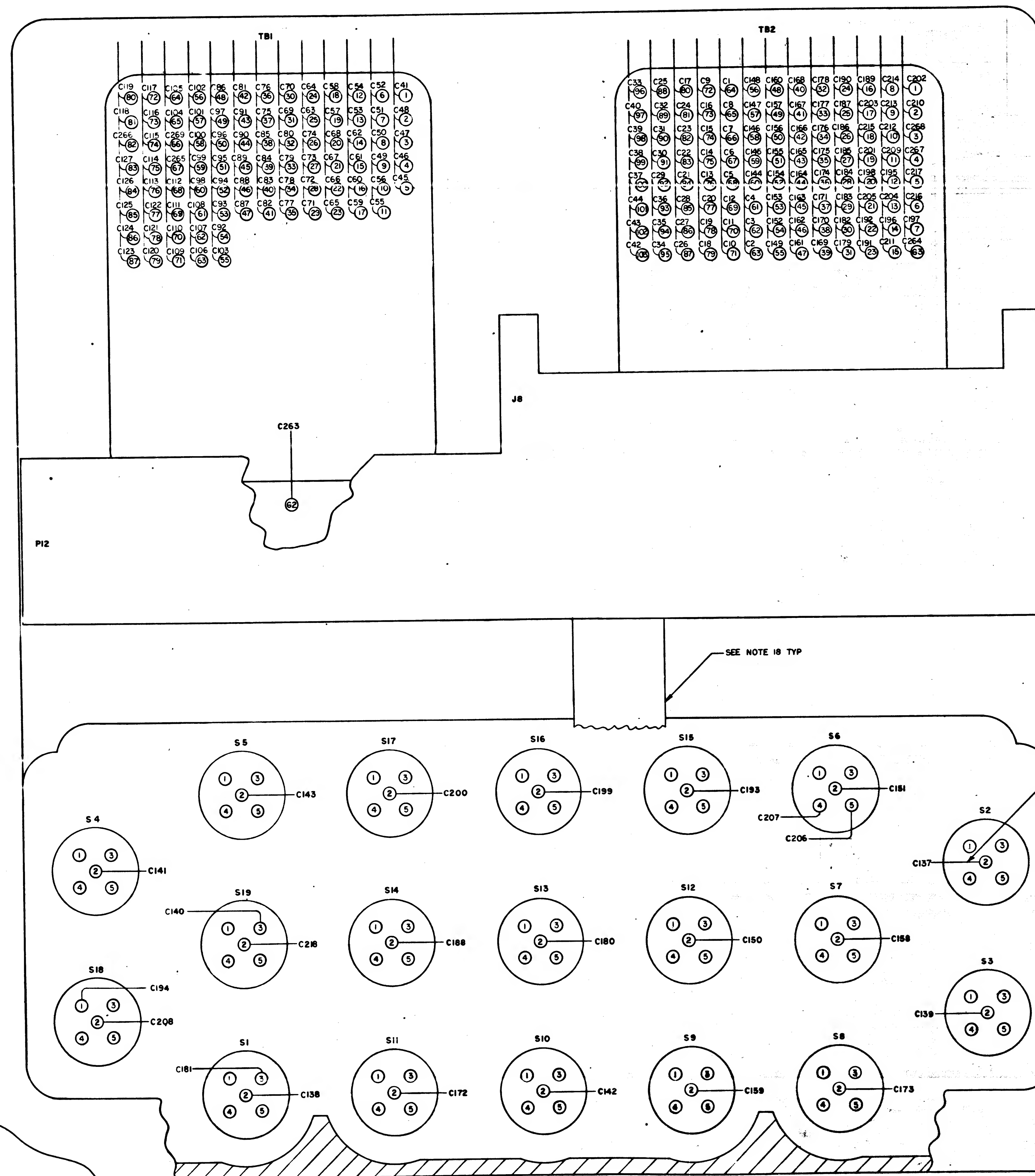
1952

APPROVED BY	<i>[Signature]</i>	80230	J	2003949
APPROVED BY	A. S. METER	DATE	SCALE 1/1	SHEET 1 OF

2003940

20000000	84667
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10

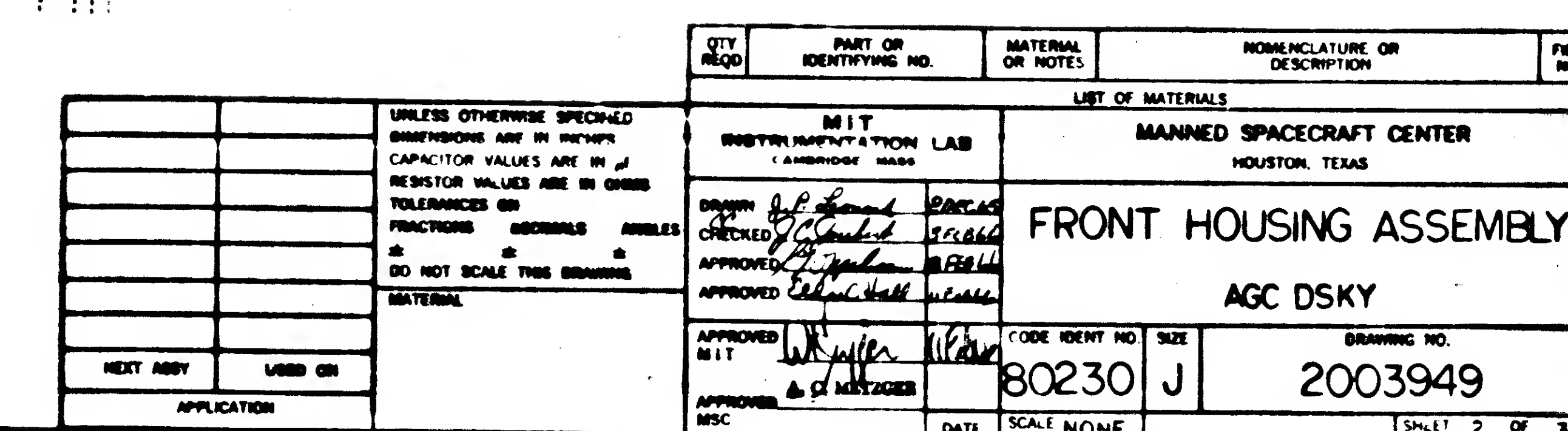


—SEE NOTE 1

—SEE NOTE 18 TO

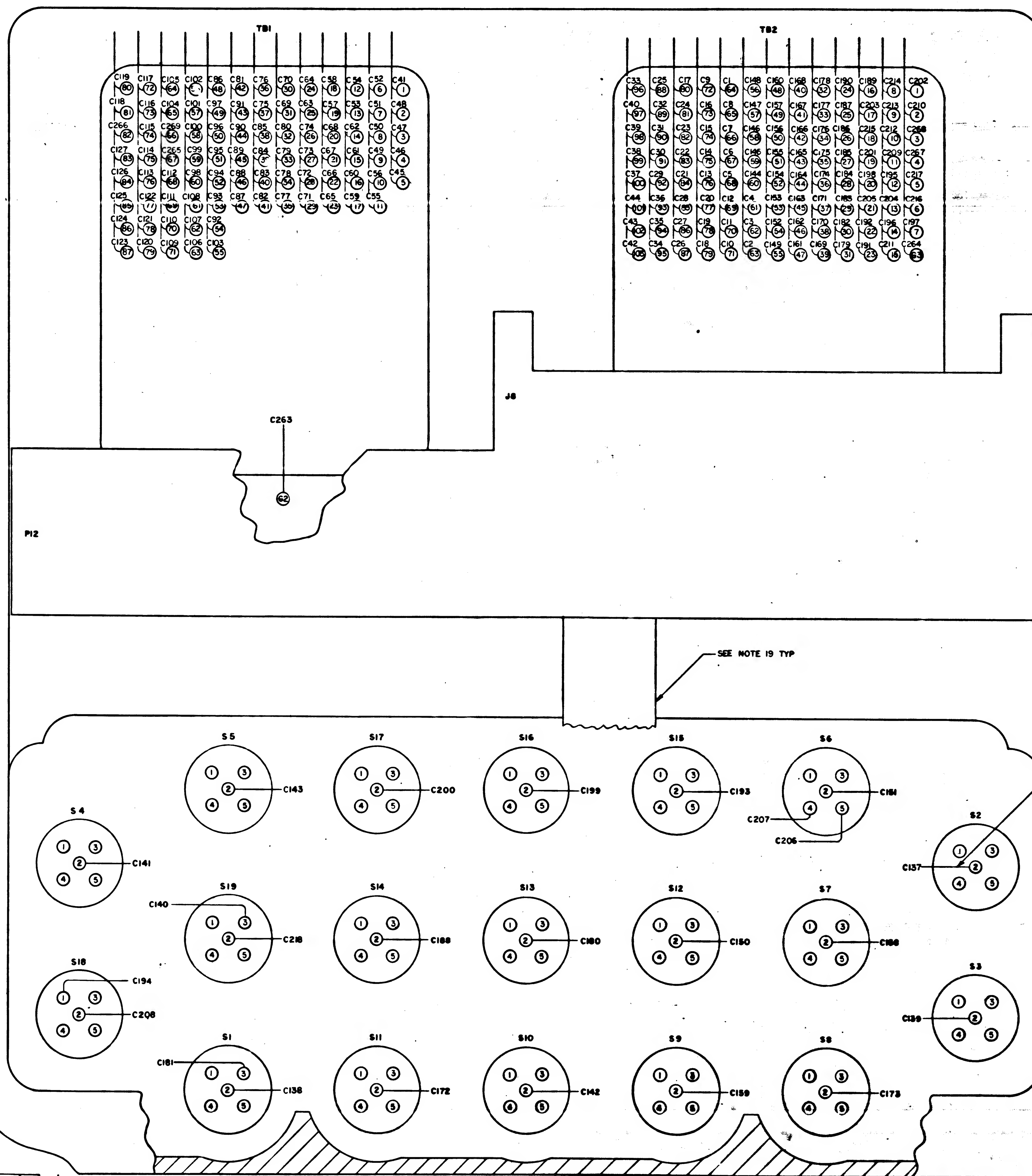
MOSELEY

THE FOL. DIMENSIONS, WEIGHTS DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES IN $^{\circ}$ $'$ $"$ DO NOT SCALE THIS DRAWING		QTY REQD		PART OR IDENTIFYING NO.		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		PR NO	
DRAWING CHECKED APPROVED BY DATE		PARTS LIST BY DATE		LIMIT OF MATERIALS MANHATTAN SPACE-RAFT CENTER HOUSTON, TEXAS FRONT. HOUSING ASSEMBLY AGC DSKY							
				APPROVED BY DATE							
				CODE IDENT NO. SIZE 80230 J							
				DRAWING NO. 2003949							
NEXT ASSY USED ON APPLICATION		APPROVED BY DATE		DATE SCALE NONE		SHEET 2 OF					



2003949 B

REVISED		REVISIONS	DATE	BY	APP'D
A	REVISED PER TDRR 26856	1/27	1/27	1/27	1/27
B	REVISED PER TDRR 27913	1/27	1/27	1/27	1/27



2003949 B

2003949 B

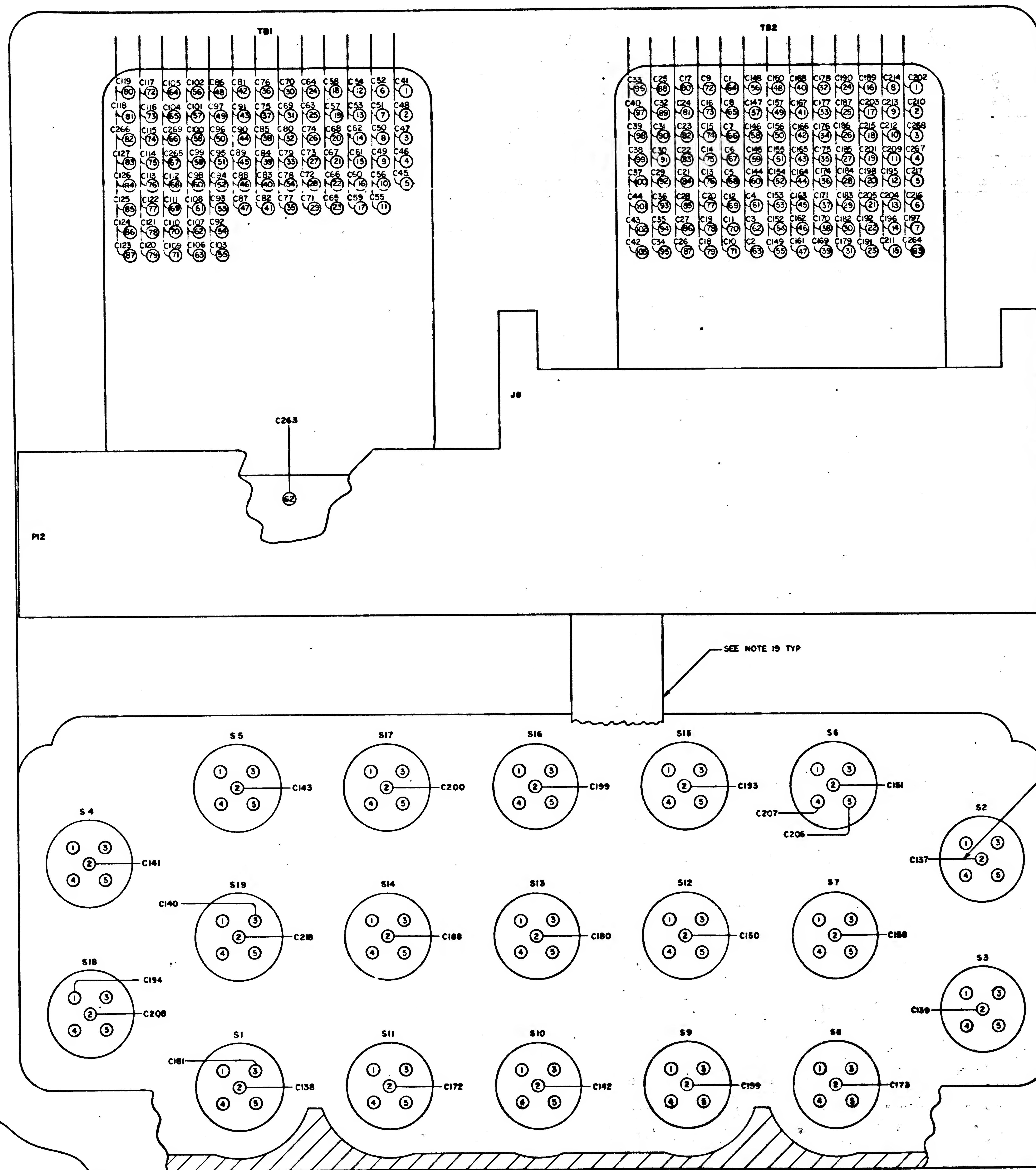
MAS

REV. NO.	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIG. NO.
M I T		LIST OF MATERIALS		
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER		
RESEARCH		RESEARCH		
FRONT HOUSING ASSEMBLY		FRONT HOUSING ASSEMBLY		
AGC DSKY		AGC DSKY		
CODE IDENT NO.		80230 J		
ISSUE		2003949		
SCALE		NONE		
SHEET		2 OF 3		

F 2 / 2

2003949 C

REVISIONS		REV	DATE	BY	CHK	DATE	APP
A	REVISED PER TDRR 26856	1/21	77	W			
B	REVISED PER TDRR 27913	1/27	78	W			
C	REVISED PER TDRR 28178	1/27	78	W			



SEE NOTE 19 TYP

SEE NOTE 9

2003949 C

2003949 C

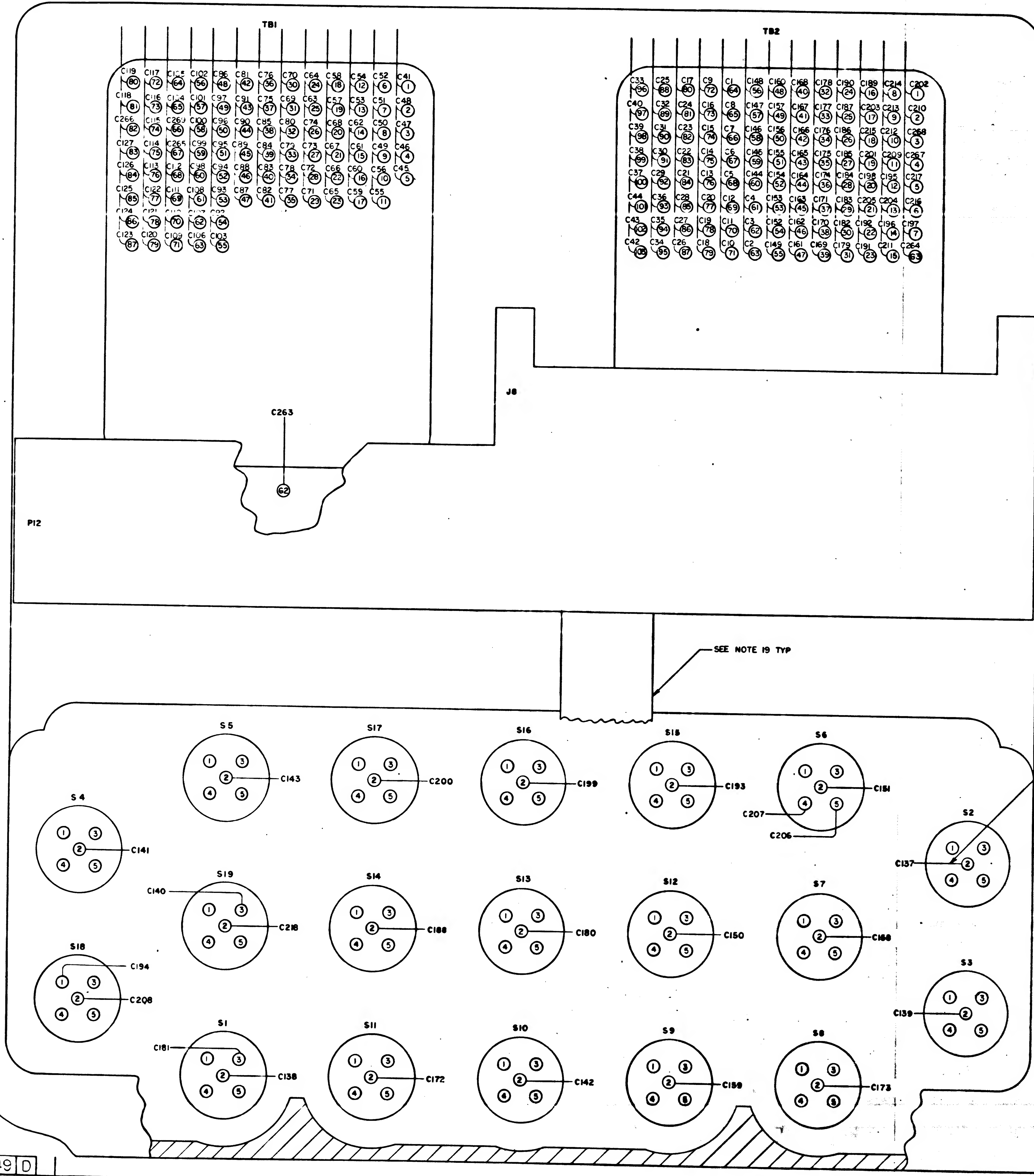
A

MASTER

QTY	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	PO #
MIT				
REINFORCEMENT LAB				
LIST OF MATERIALS				
MANHATTAN SPACECRAFT CENTER				
IDENTIFYING NO.				
FRONT HOUSING ASSEMBLY				
AGC DSKY				
CODE IDENT NO. SEE				
80230 J 2003949				
DATE SCALE NONE SHEET 2 OF 2				

2003949 D

REVISIONS			
REV	DATE	DESCRIPTION	BY
A	1/21/77	REVISED PER TORR 26856	W. J. HALL
B	1/27/77	REVISED PER TORR 27913	W. J. HALL
C	1/27/77	REVISED PER TORR 28178	W. J. HALL
D	1/27/77	REVISED PER TORR 29705	W. J. HALL



2003949 D

MASTER

REV	DATE	DESCRIPTION	BY
A	1/21/77	REVISED PER TORR 26856	W. J. HALL
B	1/27/77	REVISED PER TORR 27913	W. J. HALL
C	1/27/77	REVISED PER TORR 28178	W. J. HALL
D	1/27/77	REVISED PER TORR 29705	W. J. HALL

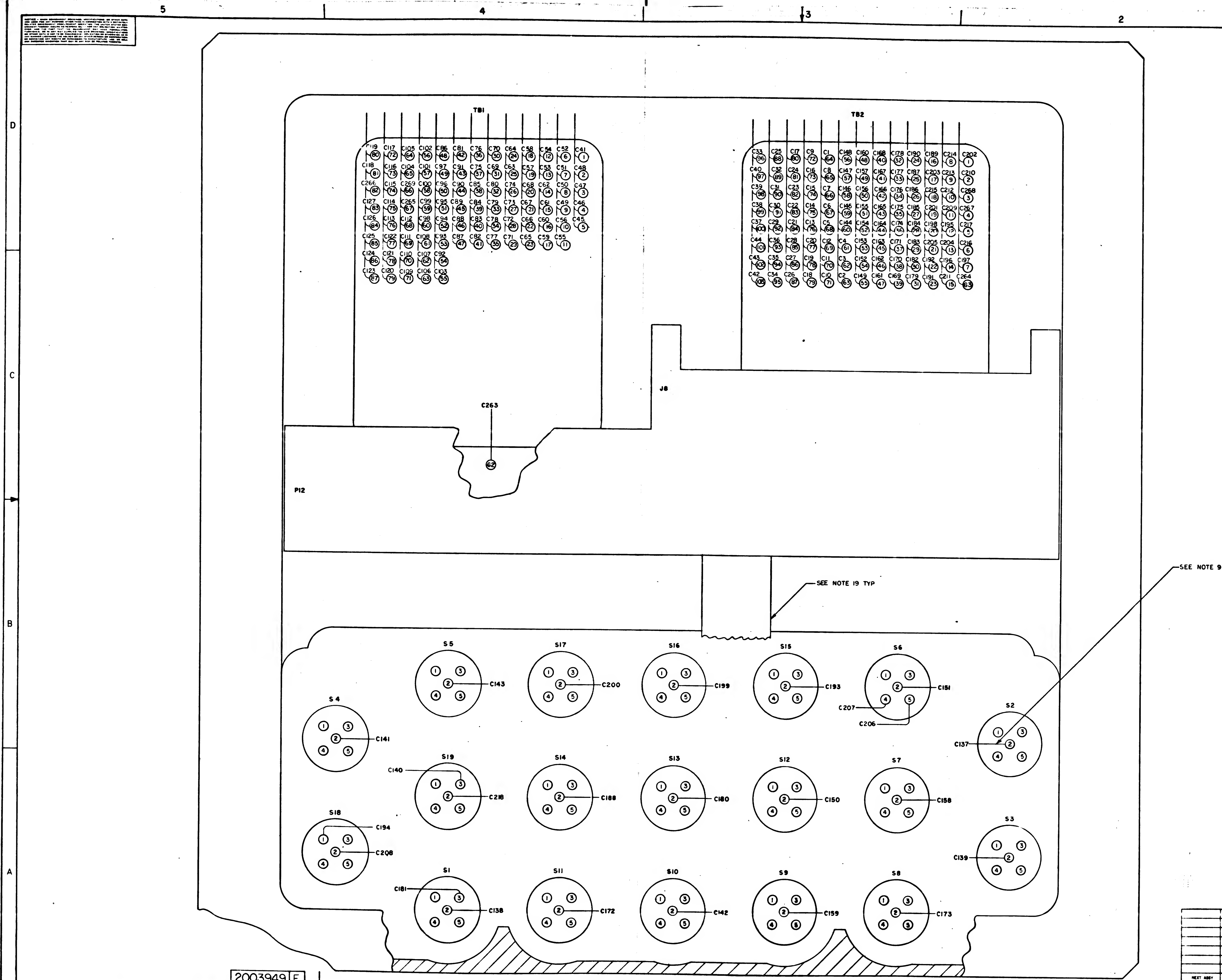
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μF TOLERANCE ON FRACTIONS DECIMALS AREAS AS NOTED DO NOT SCALE THIS DRAWING DATE	MIT ENGINEERING LAB CAMBRIDGE, MASS DRAWN BY: J. HALL CHECKED BY: J. HALL APPROVED BY: J. HALL DATE: 1/21/77	MANUFACTURED BY: MIT MANNED SPACECRAFT CENTER SOLUTION, TEXAS FRONT HOUSING ASSEMBLY AGC DSKY CODE IDENT NO: 80230 J DRAWING NO: 2003949 SHEET 2 OF 3
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F-272

5003005

2003949	三
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	DONE	
A		REV
B		REV
C		REV
D		REV



<p>UNIT 1</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 1</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 1</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 2</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 2</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 2</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 3</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 3</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 3</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 4</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 4</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 4</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 5</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 5</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 5</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 6</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 6</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 6</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 7</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 7</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 7</p> <p>NAME _____</p> <p>DATE _____</p>
<p>UNIT 8</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 8</p> <p>NAME _____</p> <p>DATE _____</p>	<p>UNIT 8</p> <p>NAME _____</p> <p>DATE _____</p>

SH2/3

2003.9.4.9

F

FILE # 42

[illegible]

LEAD ELECTRICAL					
FROM	FIND NO.	OLOR	SIZE AWG	LENGTH	TO
P12-131	32	WHT	26	AR	TB2-64
-132					TB2-63
-134					TB2-62
-135					TB2-61
-136					TB2-60
-137					TB2-59
-138					TB2-58
-139					TB2-57
-140					TB2-56
-141					TB2-55
-142					TB2-54
-143					TB2-53
-144					TB2-52
-145					TB2-51
-146					TB2-50
-147					TB2-49
-148					TB2-48
-149					TB2-47
-150					TB2-46
-151					TB2-45
-152					TB2-44
-153					TB2-43
-154					TB2-42
-155					TB2-41
-156					TB2-40
-157					TB2-39
-158					TB2-38
-159					TB2-37
-160					TB2-36
-161					TB2-35
-162					TB2-34
-163					TB2-33
-164					TB2-32
-165					TB2-31
-166					TB2-30
-167					TB2-29
-168					TB2-28
-169					TB2-27
-170					TB2-26
-171					TB2-25
-172					TB2-24
-173					TB2-23
-174					TB2-22
-175					TB2-21
-176					TB2-20
-177					TB2-19
-178					TB2-18
-179					TB2-17
-180					TB2-16
-181					TB2-15
-182					TB2-14
-183					TB2-13
-184					TB2-12
-185					TB2-11
-186					TB2-10
-187					TB2-9
-188					TB2-8
-189					TB2-7
-190					TB2-6
-191					TB2-5
-192					TB2-4
-193					TB2-3
-194					TB2-2
-195					TB2-1
-196					TB2-0
-197					TB2-0
-198					TB2-0
-199					TB2-0
-200					TB2-0
-201					TB2-0
-202					TB2-0
-203					TB2-0
-204					TB2-0
-205					TB2-0
-206					TB2-0
-207					TB2-0
-208					TB2-0
-209					TB2-0
-210					TB2-0
-211					TB2-0
-212					TB2-0
-213					TB2-0
-214					TB2-0
-215					TB2-0
-216					TB2-0
-217					TB2-0
-218					TB2-0
-219					TB2-0
-220					TB2-0
-221					TB2-0
-222					TB2-0
-223					TB2-0
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-225					TB2-0
-226					TB2-0
-227					TB2-0
-228					TB2-0
-229					TB2-0
-230					TB2-0
-231					TB2-0
-232					TB2-0
-233					TB2-0
-234					TB2-0
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-237					TB2-0
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-261					TB2-0
-262					TB2-0
-263					TB2-0
-264					TB2-0
-265					TB2-0
-266					TB2-0
-267					TB2-0
-268					TB2-0
-269					TB2-0

LEAD ELECTRICAL					
COND IDENT	REMARKS	FROM	FIND NO.	OLOR	SIZE AWG
C89		P12-46	32	WHT	26
C90		-47			
C91		-48			
C92		-49			
C93		-50			
C94		-51			
C95		-52			
C96		-53			
C97		-54			
C98		-55			
C99		-56			
C100		-57			
C101		-58			
C102		-59			
C103		-60			
C104		-61			
C105		-62			
C106		-63			
C107		-64			
C108		-65			
C109		-66			
C110		-67			
C111		-68			
C112		-69			
C113		-70			
C114		-71			
C115		-72			
C116		-73			
C117		-74			
C118		-75			
C119		-76			
C120		-77			
C121		-78			
C122		-79			
C123		-80			
C124		-81			
C125		-82			
C126		-83			
C127		-84			
C128		-85			
C129		-86			
C130		-87			
C131		-88			
C132		-89			
C133		-90			
C134		-91			
C135		-92			
C136		-93			
C137		-94			
C138		-95			
C139		-96			
C140		-97			
C141		-98			
C142		-99			
C143		-100			
C144		-101			
C145		-102			
C146		-103			
C147		-104			
C148		-105			
C149		-106			
C150		-107			
C151		-108			
C152		-109			
C153		-110			
C154		-111			
C155		-112			
C156		-113			
C157		-114			
C158		-115			
C159		-116			
C160		-117			
C161		-118			
C162		-119			
C163		-120			
C164		-121			
C165		-122			
C166		-123			
C167		-124			
C168		-125			
C169		-126			
C170		-127			
C171		-128			
C172		-129			
C173		-130			
C174		-131			
C175		-132			
C176		-133			

LEAD ELECTRICAL					
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG
C177		P12-162	32	WHT	26
C178	SEE NOTE 6	P12-163	32		
C179		P12-164	32		
C180	SEE NOTE 5	P12-165	32		
C181		P12-166	32		
C182		P12-167	32		
C183		P12-168	32		
C184	SEE NOTE 6	P12-169	32		
C185		P12-170	32		
C186		P12-171	32		
C187	SEE NOTE 5	P12-172	32		
C188		P12-173	32		
C189	SEE NOTE 6	P12-174	32		
C190		P12-175	32		
C191	SEE NOTE 6	P12-176	32		
C192		P12-177	32		
C193	SEE NOTE 5	P12-178	32		
C194		P12-179	32		
C195		P12-180	32		
C196	SEE NOTE 6	P12-181	32		
C197		P12-182	32		
C198		P12-183	32		
C199	SEE NOTE 5	P12-184	32		
C200		P12-185	32		
C201		P12-186	32		
C202	SEE NOTE 6	P12-187	32		
C203		P12-188	32		
C204		P12-189	32		
C205		P12-190	32		
C206	SEE NOTE 5	P12-191	32		
C207		P12-192	32		
C208		P12-193	32		
C209		P12-194	32		
C210	SEE NOTE 6	P12-195	32		
C211		P12-196	32		
C212		P12-197	32		
C213		P12-198	32		
C214	SEE NOTE 6	P12-199	32		
C215		P12-200	32		
C216		P12-201	32		
C217		P12-202	32		
C218		P12-203	32		
C219		P12-204	32		
C220		P12-205	32		
C221		P12-206	32		
C222		P12-207	32		
C223		P12-208	32		
C224		P12-209	32		
C225		P12-210	32		
C226		P12-211	32		
C227		P12-212	32		
C228		P12-213	32		
C229		P12-214	32		
C230		P12-215	32		
C231		P12-216	32		
C232		P12-217	32		
C233		P12-218	32		
C234	SEE NOTE 5	P12-219	32		
C235		P12-220	32		
C236		P12-221	32		
C237		P12-222	32		
C238		P12-223	32		
C239		P12-224	32		
C240		P12-225	32		
C241		P12-226	32		
C242		P12-227	32		
C243		P12-228	32		
C244		P12-229	32		
C245		P12-230	32		
C246		P12-231	32		
C247		P12-232	32		
C248		P12-233	32		
C249		P12-234	32		
C250		P12-235	32		
C251		P12-236	32		
C252		P12-237	32		
C253		P12-238	32		
C254		P12-239	32		
C255		P12-240	32		
C256		P12-241	32		
C257		P12-242	32		
C258		P12-243	32		
C259		P12-244	32		
C260		P12-245	32		
C261		P12-246	32		
C262		P12-247	32		
C263	SEE NOTE 6	P12-248	32		
C264	SEE NOTE 6	P12-249	32		
C265		P12-250	32		
C266	SEE NOTE 6	P12-251	32		
C267		P12-252	32		
C268		P12-253	32		
C269		P12-254	32		

LEAD ELECTRICAL						
FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
P12-131	32	WHT	26	AR	TB2-64	
-132					TB2-63	
-133					TB2-62	
-134					TB2-61	
-127					TB2-68	
-128					TB2-67	
-129					TB2-66	
-130					TB2-65	
-123					TB2-72	
-124					TB2-71	
-125					TB2-70	
-126					TB2-69	
-119					TB2-76	
-120					TB2-75	
-121					TB2-74	
-122					TB2-73	
-115					TB2-80	
-116					TB2-79	
-117					TB2-78	
-118					TB2-77	
-111					TB2-84	
-112					TB2-83	
-113					TB2-82	
-114					TB2-81	
-107					TB2-88	
-108					TB2-87	
-109					TB2-86	
-110					TB2-85	
-103					TB2-92	
-104					TB2-91	
-105					TB2-90	
-106					TB2-89	
-100					TB2-96	
-101					TB2-95	
-102					TB2-94	
-95					TB2-98	
-96					TB2-97	
-97					TB2-96	
-98					TB2-95	
-91					TB2-97	
-92					TB1-1	
-93					TB2-103	
-94					TB2-102	
-87					TB2-101	SEE NOTE 6
-88					TB1-5	
-89					TB1-4	
-90					TB1-3	
-83					TB1-2	
-84					TB1-9	
-85					TB1-8	
-86					TB1-7	
-79					TB1-6	
-80					TB1-13	
-81					TB1-12	
-82					TB1-11	
-73					TB1-10	
-74					TB1-19	
-75					TB1-18	
-76					TB1-17	
-77					TB1-16	
-78					TB1-15	
-67					TB1-14	
-68					TB1-25	
-69					TB1-24	
-70					TB1-23	
-71					TB1-22	
-72					TB1-21	
-61					TB1-31	
-62					TB1-30	
-63					TB1-29	
-64					TB1-28	
-65					TB1-26	
-55					TB1-37	
-56					TB1-36	
-57					TB1-35	
-58					TB1-34	
-59					TB1-33	
-50					TB1-42	
-51					TB1-41	
-52					TB1-40	
-53					TB1-39	
-54					TB1-38	
-43					TB1-47	
-44					TB1-46	
P12-45	32	WHT	26	AR	TB1-45	

LEAD ELECTRICAL						
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH
C89		P12-46	32	WHT	26	AR
C90		-47				TB1-45
C91		-48				TB1-44
C92		-37				TB1-43
C93		-38				TB1-54
C94		-39				TB1-53
C95		-40				TB1-52
C96		-41				TB1-51
C97		-42				TB1-50
C98		-31				TB1-49
C99		-32				TB1-59
C100		-33				TB1-58
C101		-34				TB1-57
C102		-35				TB1-56
C103		-36				TB1-55
C104		-25				TB1-68
C105		-27				TB1-64
C106	SEE NOTE 6	-28				TB1-63
C107		-29				TB1-62
C108		-30				TB1-61
C109		-22				TB1-71
C110		-23				TB1-70
C111		-24				TB1-69
C112		-13				TB1-76
C113		-15				TB1-75
C114		-16				TB1-74
C115		-17				TB1-73
C116		-18				TB1-72
C117		-9				TB1-81
C118		-10				TB1-80
C119		-11				TB1-78
C120		-12				TB1-77
C121		-1				TB1-67
C122		-3				TB1-66
C123		-4				TB1-85
C124		-5				TB1-84
C125		P12-6	32	WHT	26	AR
C126		S16-1	35	YEL		TB1-83
C127		S5-4	38	RED		S19-4
C128		S5-5	40	ORN		S19-5
C129		S19-4	38	RED		S1-4
C130		S19-5	40	ORN		S1-5
C131		S1-4	38	RED		S18-4
C132		S1-5	40	ORN		S18-5
C133		S18-4	38	RED		S4-4
C134		S18-5	40	ORN		S4-5
C135	SEE NOTE 5	S18-4	38	RED		S2-2
C136		S18-5	40	ORN		S1-2
C137		J8-3	33	WHT		S3-2
C138		-5				S19-3
C139		-8				S10-2
C140		-9				S5-2
C141		-10				S10-1
C142		-11				S4-2
C143		J8-13	33			S5-2
C144		P12-135	32			TB2-60
C145		-136				TB2-59
C146		-137				TB2-58
C147		-138				TB2-57
C148	SEE NOTE 6	-139				TB2-56
C149		P12-140	32			TB2-55
C150		J8-14	33			TB2-54
C151	SEE NOTE 5	J8-15	33			TB2-53
C152		P12-141	32			TB2-52
C153		-142				TB2-51
C154	SEE NOTE 6	-143				TB2-50
C155		-144				TB2-49
C156		-145				S7-2
C157		P12-146	32			S9-2
C158	SEE NOTE 5	J8-16	33			TB2-48
C159		J8-17	33			-47
C160		P12-147	32			-46
C161		-148				-45
C162		-149				-44
C163		-150				-43
C164		-151				-42
C165	SEE NOTE 6	-152				-41
C166		-153				-40
C167		-154				-39
C168		-155				-38
C169		-156				TB2-37
C170		P12-158	32			S12-2
C171		J8-18	33			S8-2
C172	SEE NOTE 5	J8-19	33			TB2-36
C173		P12-159	32			TB2-35
C174	SEE NOTE 6	P12-160	32			TB2-34
C175		P12-161	32	WHT	26	AR

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26		TB2-33	
C178	SEE NOTE 6	P12-163	32				TB2-32	SEE NOTE 6
C179		P12-164	32				TB2-31	
C180	SEE NOTE 5	J8-20	33				S13-2	SEE NOTE 5
C181		J8-21	33				S1-3	
C182		P12-165	32				TB2-30	
C183		-166					-29	
C184	SEE NOTE 6	-167					-28	SEE NOTE 6
C185		-168					-27	
C186		-169					-26	
C187		P12-170	32				TB2-25	
C188	SEE NOTE 5	J8-22	33				S14-2	SEE NOTE 5
C189		P12-190	32				TB2-16	
C190		-174					-24	
C191	SEE NOTE 6	-175					-23	SEE NOTE 6
C192		P12-176	32				TB2-22	
C193	SEE NOTE 5	J8-24	33				S15-2	SEE NOTE 5
C194		J8-25	33				S18-1	
C195	SEE NOTE 6	P12-196	32				TB2-12	SEE NOTE 6
C196		-192					-14	
C197		-204					-7	
C198		P12-182	32				TB2-20	
C199	SEE NOTE 5	J8-26	33				S16-2	SEE NOTE 5
C200		J8-27	33				S17-2	
C201		P12-185	32				TB2-19	
C202	SEE NOTE 6	-210					-1	SEE NOTE 6
C203		-187					-17	
C204		-195					-13	
C205		-181	32	WHT			TB2-21	
C206	SEE NOTE 8	-193	40	ORN			S6-5	SEE NOTE 8
C207		P12-194	38	RED			S6-4	
C208		J8-30	33	WHT			S18-2	SEE NOTE 5
C209		P12-197	32	WHT			TB2-11	
C210		-209					-2	
C211		-191					-15	
C212	SEE NOTE 6	-201					-10	SEE NOTE 6
C213		-202					-9	
C214		-203					-8	
C215		-186					-18	
C216		-207					-6	
C217		-206	32	WHT			TB2-5	
C218		P12-179	33	WHT			S19-2	
C219		S1-1	35	YEL			S2-3	
C220		S3-1					S3-3	
C221		S4-1					S4-3	
C222		S5-1					S5-3	
C223		S6-1					S6-3	
C224		S7-1					S7-3	
C225		S8-1					S8-3	
C226		S9-1					S9-3	
C227		S10-1					S10-3	
C228		S11-1					S11-3	
C229		S12-1					S12-3	
C230		S13-1					S13-3	
C231		S14-1					S14-3	
C232		S15-1	35	YEL			S15-3	
C233	SEE NOTE 5	S16-1	38	RED			S16-3	SEE NOTE 5
C234		S17-1	40	ORN			S17-3	
C235		S18-1	40	ORN			S18-3	
C236		S19-1	40	ORN			S19-3	
C237		S20-1	40	ORN			S20-3	
C238		S21-1	40	ORN			S21-3	
C239		S22-1	40	ORN			S22-3	
C240		S23-1	40	ORN			S23-3	
C241		S24-1	40	ORN			S24-3	
C242		S25-1	40	ORN			S25-3	
C243		S26-1	40	ORN			S26-3	
C244		S27-1	40	ORN			S27-3	
C245		S28-1	40	ORN			S28-3	
C246		S29-1	40	ORN			S29-3	
C247		S30-1	40	ORN			S30-3	
C248		S31-1	40	ORN			S31-3	
C249		S32-1	40	ORN			S32-3	
C250		S33-1	40	ORN			S33-3	
C251		S34-1	40	ORN			S34-3	
C252		S35-1	40	ORN			S35-3	
C253		S36-1	40	ORN			S36-3	
C254		S37-1	40	ORN			S37-3	
C255		S38-1	40	ORN			S38-3	
C256		S39-1	40	ORN			S39-3	
C257		S40-1	40	ORN			S40-3	
C258		S41-1	40	ORN			S41-3	
C259		S42-1	40	ORN			S42-3	
C260		S43-1	40	ORN			S43-3	
C261		S44-1	40	ORN			S44-3	
C262		S45-1	40	ORN			S45-3	
C263	SEE NOTE 3	P12-184	32	WHT			S18-3	SEE NOTE 3
C264	SEE NOTE 6	P12-183	41				62	SEE NOTE 6
C265		P12-20	32				63	SEE NOTE 5
C266	SEE NOTE 6	P12-8					TB1-67	SEE NOTE 6
C267		P12-17					TB1-82	
C268		P12-177					TB2-4	
C269		P12-19	32	WHT	26	AR	TB2-3	

2003949 B

REVISED PER TORR 26856	DATE: 1/1/77
REVISED PER TORR 27913	DATE: 1/1/77

LEAD ELECTRICAL						
CONC IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	TO
P12-131		32	WHT	26	AR	TB2-64
-132						TB2-63
-133						TB2-62
-134						TB2-61
-135						TB2-60
-136						TB2-59
-137						TB2-58
-138						TB2-57
-139						TB2-56
-140						TB2-55
-141						TB2-54
-142						TB2-53
-143						TB2-52
-144						TB2-51
-145						TB2-50
-146						TB2-49
-147						TB2-48
-148						TB2-47
-149						TB2-46
-150						TB2-45
-151						TB2-44
-152						TB2-43
-153						TB2-42
-154						TB2-41
-155						TB2-40
-156						TB2-39
-157						TB2-38
-158						TB2-37
-159						TB2-36
-160						TB2-35
-161						TB2-34
-162						TB2-33
-163						TB2-32
-164						TB2-31
-165						TB2-30
-166						TB2-29
-167						TB2-28
-168						TB2-27
-169						TB2-26
-170						TB2-25
-171						TB2-24
-172						TB2-23
-173						TB2-22
-174						TB2-21
-175						TB2-20
-176						TB2-19
-177						TB2-18
-178						TB2-17
-179						TB2-16
-180						TB2-15
-181						TB2-14
-182						TB2-13
-183						TB2-12
-184						TB2-11
-185						TB2-10
-186						TB2-9
-187						TB2-8
-188						TB2-7
-189						TB2-6
-190						TB2-5
-191						TB2-4
-192						TB2-3
-193						TB2-2
-194						TB2-1
-195						TB2-0
-196						TB2-0
-197						TB2-0
-198						TB2-0
-199						TB2-0
-200						TB2-0
-201						TB2-0
-202						TB2-0
-203						TB2-0
-204						TB2-0
-205						TB2-0
-206						TB2-0
-207						TB2-0
-208						TB2-0
-209						TB2-0
-210						TB2-0
-211						TB2-0
-212						TB2-0
-213						TB2-0
-214						TB2-0
-215						TB2-0
-216						TB2-0
-217						TB2-0
-218						TB2-0
-219						TB2-0
-220						TB2-0
-221						TB2-0
-222						TB2-0
-223						TB2-0
-224						TB2-0
-225						TB2-0
-226						TB2-0
-227						TB2-0
-228						TB2-0
-229						TB2-0
-230						TB2-0
-231						TB2-0
-232						TB2-0
-233						TB2-0
-234						TB2-0
-235						TB2-0
-236						TB2-0
-237						TB2-0
-238						TB2-0
-239						TB2-0
-240						TB2-0
-241						TB2-0
-242						TB2-0
-243						TB2-0
-244						TB2-0
-245						TB2-0
-246						TB2-0
-247						TB2-0
-248						TB2-0
-249						TB2-0
-250						TB2-0
-251						TB2-0
-252						TB2-0
-253						TB2-0
-254						TB2-0
-255						TB2-0
-256						TB2-0
-257						TB2-0
-258						TB2-0
-259						TB2-0
-260						TB2-0
-261						TB2-0
-262						TB2-0
-263						TB2-0
-264						TB2-0
-265						TB2-0
-266						TB2-0
-267						TB2-0
-268						TB2-0
-269						TB2-0

LEAD ELECTRICAL							
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	TO	REMARKS
C89		P12-46	32	WHT	26	AR	TB1-45
C90		↓ -47	↑	↑	↑	↑	TB1-44
C91		↓ -48	↑	↑	↑	↑	TB1-43
C92		↓ -37	↑	↑	↑	↑	TB1-54
C93		↓ -38	↑	↑	↑	↑	TB1-53
C94		↓ -39	↑	↑	↑	↑	TB1-52
C95		↓ -40	↑	↑	↑	↑	TB1-51
C96		↓ -41	↑	↑	↑	↑	TB1-50
C97		↓ -42	↑	↑	↑	↑	TB1-49
C98		↓ -31	↑	↑	↑	↑	TB1-60
C99		↓ -32	↑	↑	↑	↑	TB1-59
C100		↓ -33	↑	↑	↑	↑	TB1-58
C101		↓ -34	↑	↑	↑	↑	TB1-57
C102		↓ -35	↑	↑	↑	↑	TB1-56
C103		↓ -36	↑	↑	↑	↑	TB1-57
C104		↓ -25	↑	↑	↑	↑	TB1-65
C105		↓ -27	↑	↑	↑	↑	TB1-64
C106	SEE NOTE 6	↓ -28	↑	↑	↑	↑	TB1-63
C107		↓ -29	↑	↑	↑	↑	TB1-62
C108		↓ -30	↑	↑	↑	↑	TB1-61
C109		↓ -21	↑	↑	↑	↑	TB1-71
C110		↓ -22	↑	↑	↑	↑	TB1-70
C111		↓ -23	↑	↑	↑	↑	TB1-69
C112		↓ -24	↑	↑	↑	↑	TB1-68
C113		↓ -13	↑	↑	↑	↑	TB1-76
C114		↓ -15	↑	↑	↑	↑	TB1-75
C115		↓ -16	↑	↑	↑	↑	TB1-74
C116		↓ -17	↑	↑	↑	↑	TB1-73
C117		↓ -18	↑	↑	↑	↑	TB1-72
C118		↓ -7	↑	↑	↑	↑	TB1-81
C119		↓ -9	↑	↑	↑	↑	TB1-80
C120		↓ -10	↑	↑	↑	↑	TB1-79
C121		↓ -11	↑	↑	↑	↑	TB1-78
C122		↓ -12	↑	↑	↑	↑	TB1-77
C123		↓ -1	↑	↑	↑	↑	TB1-87
C124		↓ -3	↑	↑	↑	↑	TB1-86
C125		↓ -4	↑	↑	↑	↑	TB1-85
C126		↓ -5	↑	↑	↑	↑	TB1-84
C127		P12-6	32	WHT			TB1-83
C128		S16-1	35	YEL			S17-3
C129		S5-4	38	RED			S19-4
C130		S5-5	40	ORN			S19-5
C131		S19-4	38	RED			S19-4
C132		S19-5	40	ORN			S19-5
C133		S1-4	38	RED			S18-4
C134		S1-5	40	ORN			S18-5
C135	SEE NOTE 5	S18-4	38	RED			S4-4
C136		S18-5	40	ORN			S4-5
C137		J8-3	33	WHT			S2-2
C138		↓ -5	↑	↑	↑	↑	S1-2
C139		↓ -8	↑	↑	↑	↑	S3-2
C140		↓ -9	↑	↑	↑	↑	S18-3
C141		↓ -10	↑	↑	↑	↑	S4-2
C142		↓ -11	↑	↑	↑	↑	S10-2
C143		J8-13	33				S6-2
C144		P12-135	32				TB2-60
C145		↓ -136	↑	↑	↑	↑	TB2-59
C146	SEE NOTE 6	↓ -137	↑	↑	↑	↑	TB2-58
C147		↓ -138	↑	↑	↑	↑	TB2-57
C148		↓ -139	↑	↑	↑	↑	TB2-56
C149		P12-140	32				TB2-55
C150	SEE NOTE 5	J8-14	33				S12-2
C151		J8-15	33				S6-2
C152		P12-141	32				TB2-54
C153		↓ -142	↑	↑	↑	↑	TB2-53
C154	SEE NOTE 6	↓ -143	↑	↑	↑	↑	TB2-52
C155		↓ -144	↑	↑	↑	↑	TB2-51
C156		↓ -145	↑	↑	↑	↑	TB2-50
C157		P12-146	32				TB2-49
C158	SEE NOTE 5	J8-16	33				S7-2
C159		J8-17	33				S9-2
C160		P12-147	32				TB2-48
C161		↓ -148	↑	↑	↑	↑	↓ -47
C162		↓ -149	↑	↑	↑	↑	↓ -46
C163		↓ -150	↑	↑	↑	↑	↓ -45
C164		↓ -151	↑	↑	↑	↑	↓ -44
C165	SEE NOTE 6	↓ -152	↑	↑	↑	↑	↓ -43
C166		↓ -153	↑	↑	↑	↑	↓ -42
C167		↓ -154	↑	↑	↑	↑	↓ -41
C168		↓ -155	↑	↑	↑	↑	↓ -40
C169		↓ -156	↑	↑	↑	↑	↓ -39
C170		↓ -157	↑	↑	↑	↑	↓ -38
C171		P12-158	32				TB2-37
C172	SEE NOTE 5	J8-18	33				S11-2
C173		J8-19	33				S8-2
C174	SEE NOTE 6	P12-159	32				TB2-36
C175		P12-160	32				TB2-35
C176		P12-161	32	WHT	26	AR	TB2-35

2003949 C

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
A		REVISED PER TDRR 26856	SP1	SP1
B		REVISED PER TDRR 27913	SP1	SP1
C		REVISED PER TDRR 28178	SP1	SP1

LEAD ELECTRICAL						
FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
P12-131	32	WHT	26	AR	TB2-64	
-132					TB2-63	
-133					TB2-62	
-134					TB2-61	
-127					TB2-68	
-128					TB2-67	
-129					TB2-66	
-130					TB2-65	
-23					TB2-72	
-124					TB2-71	
-125					TB2-70	
-126					TB2-69	
-119					TB2-76	
-120					TB2-75	
-121					TB2-74	
-122					TB2-73	
-115					TB2-80	
-116					TB2-79	
-117					TB2-78	
-118					TB2-77	
-111					TB2-84	
-112					TB2-83	
-113					TB2-82	
-114					TB2-81	
-107					TB2-88	
-108					TB2-87	
-109					TB2-86	
-110					TB2-85	
-103					TB2-92	
-104					TB2-91	
-105					TB2-90	
-106					TB2-89	
-99					TB2-96	
-100					TB2-95	
-101					TB2-94	
-102					TB2-93	
-95					TB2-100	
-96					TB2-99	
-97					TB2-98	
-98					TB2-97	
-91					TB1-1	
-92					TB2-103	
-93					TB2-102	
-94					TB2-101	
-87					TB1-5	
-88					TB1-4	
-89					TB1-3	
-90					TB1-2	
-83					TB1-9	
-84					TB1-8	
-85					TB1-7	
-86					TB1-6	
-79					TB1-13	
-80					TB1-12	
-81					TB1-11	
-82					TB1-10	
-73					TB1-19	
-74					TB1-18	
-75					TB1-17	
-76					TB1-16	
-77					TB1-15	
-78					TB1-14	
-67					TB1-25	
-68					TB1-24	
-69					TB1-23	
-70					TB1-22	
-71					TB1-21	
-72					TB1-20	
-61					TB1-31	
-62					TB1-30	
-63					TB1-29	
-64					TB1-28	
-65					TB1-27	
-66					TB1-26	
-55					TB1-37	
-56					TB1-36	
-57					TB1-35	
-58					TB1-34	
-59					TB1-33	
-60					TB1-32	
-50					TB1-42	
-51					TB1-41	
-52					TB1-40	
-53					TB1-39	
-54					TB1-38	
-43					TB1-48	
-44					TB1-47	
P12-45	32	WHT	26	AR	TB1-46	

LEAD ELECTRICAL						
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH
C89		P12-46	32	WHT	26	AR
C90		-47				TB1-45
C91		-48				TB1-44
C92		-37				TB1-43
C93		-38				TB1-54
C94		-39				TB1-53
C95		-40				TB1-52
C96		-41				TB1-51
C97		-42				TB1-50
C98		-31				TB1-49
C99		-32				TB1-60
C100		-33				TB1-59
C101		-34				TB1-58
C102		-35				TB1-57
C103		-36				TB1-56
C104		-25				TB1-57
C105		-27				TB1-64
C106		-28				TB1-63
C107		-29				TB1-62
C108		-30				TB1-61
C109		-21				TB1-71
C110		-22				TB1-70
C111		-23				TB1-69
C112		-24				TB1-68
C113		-13				TB1-76
C114		-15				TB1-75
C115		-16				TB1-74
C116		-17				TB1-73
C117		-18				TB1-72
C118		-7				TB1-81
C119		-9				TB1-80
C120		-10				TB1-79
C121		-11				TB1-78
C122		-12				TB1-77
C123		-1				TB1-87
C124		-3				TB1-86
C125		-4				TB1-85
C126		-5				TB1-84
C127		P12-6	32	WHT		TB1-83
C128		S16-1	35	YEL		S17-3
C129		S5-4	38	RED		S19-4
C130		S5-5	40	ORN		S19-5
C131		S19-4	38	RED		S19-4
C132		S19-5	40	ORN		S19-5
C133		S1-4	38	RED		S18-4
C134		S1-5	40	ORN		S18-5
C135		S18-4	38	RED		S4-4
C136		S18-5	40	ORN		S4-5
C137		J8-3	33	WHT		S2-2
C138		-5				S1-2
C139		-8				S3-2
C140		-9				S19-3
C141		-10				S4-2
C142		-11				S10-2
C143		J8-13	33			S5-2
C144		P12-135	32			TB2-60
C145		-136				TB2-59
C146		-137				TB2-58
C147		-138				TB2-57
C148		-139				TB2-56
C149		P12-140	32			TB2-55
C150		J8-14	33			S2-2
C151		J8-15	33			S6-2
C152		P12-141	32			TB2-54
C153		-142				TB2-53
C154		-143				TB2-52
C155		-144				TB2-51
C156		-145				TB2-50
C157		P12-146	32			TB2-49
C158		J8-16	33			S7-2
C159		J8-17	33			S9-2
C160		P12-147	32			TB2-48
C161		-148				-46
C162		-149				-45
C163		-150				-44
C164		-151				-43
C165		-152				-42
C166		-153				-41
C167		-154				-40
C168		-155				-39
C169		-156				-38
C170		-157				-37
C171		P12-158	32			TB2-37
C172		J8-18	33			S17-2
C173		J8-19	33			S8-2
C174		P12-159	32			TB2-36
C175		P12-160	32			TB2-35
C176		P12-161	32	WHT	26	AR

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26		AR	TB2-33
C178	SEE NOTE 6	P12-163	32					TB2-32
C179		P12-164	32					TB2-31
C180	SEE NOTE 5	J8-20	33					S13-2
C181		J8-21	33					S1-3
C182		P12-165	32					TB2-30
C183		-166						-29
C184	SEE NOTE 6	-167						-28
C185		-168						-27
C186		-169						-26
C187		P12-170	32					TB2-25
C188	SEE NOTE 5	J8-22	33					S14-2
C189		P12-190	32					TB2-16
C190		-174						-24
C191	SEE NOTE 6	-175						-23
C192		P12-176	32					TB2-22
C193	SEE NOTE 5	J8-24	33					S15-2
C194		J8-25	33					S18-1
C195		P12-196	32					TB2-12
C196	SEE NOTE 6	-192						-14
C197		-204						-7
C198		P12-182	32					TB2-20
C199	SEE NOTE 5	J8-26	33					S16-2
C200		J8-27	33					S17-2
C201		P12-185	32					TB2-19
C202	SEE NOTE 6	-210						-1
C203		-187						-17
C204		-196						-13
C205		-181	32	WHT				TB2-21
C206	SEE NOTE 8	-193	40	ORN				S6-5
C207		P12-194	38	RED				S6-4
C208		J8-30	33	WHT				S18-2
C209		P12-197	32	WHT				TB2-11
C210		-209						-2
C211		-191						-15
C212	SEE NOTE 6	-201						-10
C213		-202						-9
C214		-203						-8
C215		-186						-18
C216		-207						-6
C217		-208	32	WHT				TB2-5
C218		P12-179	33	WHT				S19-2
C219		S1-1	35	YEL				S2-3
C220		S2-1						S3-3
C221		S3-1						S4-3
C222		S4-1						S5-3
C223		S6-1						S6-3
C224		S7-1						S7-3
C225		S7-1						S8-3
C226		S8-1						S9-3
C227		S9-1						S10-3
C228		S10-1						S11-3
C229		S11-1						S12-3
C230		S12-1						S13-3
C231		S13-1						S14-3
C232		S14-1						S15-3
C233	SEE NOTE 5	S15-1	35	YEL				S16-3
C234		S17-4	38	RED				S17-4
C235		S17-5	40	ORN				S17-5
C236		S6-4	38	RED				S2-4
C237		S6-5	40	ORN				S2-5
C238		S2-4	38	RED				S7-4
C239		S2-5	40	ORN				S7-5
C240		S7-4	38	RED				S3-4
C241		S7-5	40	ORN				S3-5
C242		S3-4	38	RED				S8-4
C243		S3-5	40	ORN				S8-5
C244		S8-4	38	RED				S9-4
C245		S8-5	40	ORN				S9-5
C246		S9-4	38	RED				S2-4
C247		S9-5	40	ORN				S2-5
C248		S12-4	38	RED				S15-4
C249		S12-5	40	ORN				S15-5
C250		S16-4	38	RED				S16-4
C251		S16-5	40	ORN				S16-5
C252		S6-4	38	RED				S3-4
C253		S6-5	40	ORN				S3-5
C254		S13-4	38	RED				S10-4
C255		S13-5	40	ORN				S10-5
C256		S10-4	38	RED				S11-4
C257		S10-5	40	ORN				S11-5
C258		S11-4	38	RED				S14-4
C259		S11-5	40	ORN				S14-5
C260		S14-4	38	RED				S17-4
C261		S14-5	40	ORN				S17-5
C262		S17-1	35	YEL				S18-3
C263	SEE NOTE 6	P12-184	32	WHT				G2
C264	SEE NOTE 6	P12-183	41					G3
C265	SEE NOTE 6	P12-20	32					TB1-67
C266		P12-8						TB1-82
C267		P12-173						TB2-4
C268		P12-177						TB2-3
C269		P12-19	32	WHT	26		AP	TB1-85

FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
32	WHT	26	AR	TB2-64	
				TB2-63	
				TB2-62	
				TB2-61	
				TB2-60	
				TB2-59	
				TB2-58	
				TB2-57	
				TB2-56	
				TB2-55	
				TB2-54	
				TB2-53	
				TB2-52	
				TB2-51	
				TB2-50	
				TB2-49	
				TB2-48	
				TB2-47	
				TB2-46	
				TB2-45	
				TB2-44	
				TB2-43	
				TB2-42	
				TB2-41	
				TB2-40	
				TB2-39	
				TB2-38	
				TB2-37	
				TB2-36	
				TB2-35	
				TB2-34	
				TB2-33	
				TB2-32	
				TB2-31	
				TB2-30	
				TB2-29	
				TB2-28	
				TB2-27	
				TB2-26	
				TB2-25	
				TB2-24	
				TB2-23	
				TB2-22	
				TB2-21	
				TB2-20	
				TB2-19	
				TB2-18	
				TB2-17	
				TB2-16	
				TB2-15	
				TB2-14	
				TB2-13	
				TB2-12	
				TB2-11	
				TB2-10	
				TB2-9	
				TB2-8	
				TB2-7	
				TB2-6	
				TB2-5	
				TB2-4	
				TB2-3	
				TB2-2	
				TB2-1	
				TB2-0	

COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C89		P12-46	32	WHT	26	AR	TB1-45	
C90		-47					TB1-44	
C91		-48					TB1-43	
C92		-37					TB1-42	
C93		-38					TB1-41	
C94		-39					TB1-40	
C95		-40					TB1-39	
C96		-41					TB1-38	
C97		-42					TB1-37	
C98		-31					TB1-36	
C99		-32					TB1-35	
C100		-33					TB1-34	
C101		-34					TB1-33	
C102		-35					TB1-32	
C103		-36					TB1-31	
C104		-25					TB1-30	
C105		-27					TB1-29	
C106	SEE NOTE 6	-28					TB1-28	SEE NOTE 6
C107		-29					TB1-27	
C108		-30					TB1-26	
C109		-21					TB1-25	
C110		-22					TB1-24	
C111		-23					TB1-23	
C112		-24					TB1-22	
C113		-13					TB1-21	
C114		-15					TB1-20	
C115		-16					TB1-19	
C116		-17					TB1-18	
C117		-18					TB1-17	
C118		-7					TB1-16	
C119		-9					TB1-15	
C120		-10					TB1-14	
C121		-11					TB1-13	
C122		-12					TB1-12	
C123		-1					TB1-11	
C124		-3					TB1-10	
C125		-4					TB1-9	
C126		-5					TB1-8	
C127		P12-6	32	WHT			TB1-7	
C128		S16-1	35	YEL			TB1-6	
C129		S5-4	38	RED			TB1-5	
C130		S5-5	40	ORN			TB1-4	
C131		S19-4	38	RED			TB1-3	
C132		S19-5	40	ORN			TB1-2	
C133		S1-4	38	RED			TB1-1	
C134		S1-5	40	ORN			TB1-0	
C135	SEE NOTE 5	S18-4	38	RED			TB2-60	SEE NOTE 5
C136		S18-5	40	ORN			TB2-59	
C137		J8-3	33	WHT			TB2-58	
C138		-5					TB2-57	
C139		-8					TB2-56	
C140		-9					TB2-55	
C141		-10					TB2-54	
C142		-11					TB2-53	
C143		J8-13	33				TB2-52	
C144		P12-135	32				TB2-51	
C145		-136					TB2-50	
C146		-137					TB2-49	
C147	SEE NOTE 6	-138					TB2-48	SEE NOTE 6
C148		-139					TB2-47	
C149		P12-140	32				TB2-46	
C150	SEE NOTE 5	J8-14	33				TB2-45	SEE NOTE 5
C151		J8-15	33				TB2-44	
C152		P12-141	32				TB2-43	
C153		-142					TB2-42	
C154	SEE NOTE 6	-143					TB2-41	SEE NOTE 6
C155		-144					TB2-40	
C156		-145					TB2-39	
C157		P12-146	32				TB2-38	
C158	SEE NOTE 5	J8-16	33				TB2-37	SEE NOTE 5
C159		J8-17	33				TB2-36	
C160		P12-147	32				TB2-35	
C161		-148					TB2-34	
C162		-149					TB2-33	
C163		-150					TB2-32	
C164		-151					TB2-31	
C165	SEE NOTE 6	-152					TB2-30	SEE NOTE 6
C166		-153					TB2-29	
C167		-154					TB2-28	
C168		-155					TB2-27	
C169		-156					TB2-26	
C170		-157					TB2-25	
C171		P12-158	32				TB2-24	
C172	SEE NOTE 5	J8-18	33				TB2-23	SEE NOTE 5
C173		J8-19	33				TB2-22	
C174		P12-159	32				TB2-21	
C175	SEE NOTE 6	P12-160	32				TB2-20	SEE NOTE 6
C176		P12-161	32	WHT	26	AR	TB2-19	

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26	AR	TB2-33	
C178	SEE NOTE 6	P12-163	32				TB2-32	SEE NOTE 6
C179		P12-164	32				TB2-31	
C180	SEE NOTE 5	J8-20	33				S13-2	SEE NOTE 5
C181		J8-21	33				S13-3	
C182		P12-165	32				TB2-30	
C183		-166					-29	
C184		-167					-28	
C185	SEE NOTE 6	-168					-27	SEE NOTE 6
C186		-169					-26	
C187		P12-170	32				TB2-25	
C188	SEE NOTE 5	J8-22	33				S14-2	SEE NOTE 5
C189		P12-190	32				TB2-16	
C190		-174					-24	
C191	SEE NOTE 6	-175					-23	SEE NOTE 6
C192		P12-176	32				TB2-22	
C193	SEE NOTE 5	J8-24	33				S15-2	SEE NOTE 5
C194		J8-25	33				S18-1	
C195		P12-196	32				TB2-12	
C196	SEE NOTE 6	-192					-14	SEE NOTE 6
C197		-204					-7	
C198		P12-182	32				TB2-20	
C199	SEE NOTE 5	J8-26	33				S16-2	SEE NOTE 5
C200		J8-27	33				S17-2	
C201		P12-185	32				TB2-19	
C202	SEE NOTE 6	-210					-1	SEE NOTE 6
C203		-187					-17	
C204		-196					-13	
C205		-181	32	WHT			TB2-21	
C206	SEE NOTE 5	-193	40	ORN			S6-5	SEE NOTE 5
C207		P12-194	38	RED			S6-4	
C208		J8-30	33	WHT			S18-2	
C209		P12-197	32	WHT			TB2-11	
C210		-209					-2	
C211		-191					-15	
C212	SEE NOTE 6	-201					-10	SEE NOTE 6
C213		-202					-9	
C214		-203					-8	
C215		-186					-18	
C216		-207					-6	
C217		-208	32	WHT			TB2-5	
C218		P12-179	33	WHT			S19-2	
C219		S1-1	35	YEL			S2-3	
C220		S2-1					S3-3	
C221		S3-1					S4-3	
C222		S4-1					S5-3	
C223		S5-1					S6-3	
C224		S6-1					S7-3	
C225		S7-1					S8-3	
C226		S8-1					S9-3	
C227		S9-1					S10-3	
C228		S10-1					S11-3	
C229		S11-1					S12-3	
C230		S12-1					S13-3	
C231		S13-1					S14-3	
C232		S14-1					S15-3	
C233		S15-1	35	YEL			S16-3	
C234	SEE NOTE 5	S17-4	40	ORN			S5-4	SEE NOTE 5
C235		S17-5	40	ORN			S5-5	
C236		S6-4	38	RED			S2-4	
C237		S6-5	40	ORN			S2-5	
C238		-2-4	38	RED			S7-4	
C239		S2-5	40	ORN			S7-5	
C240		S7-4	38	RED			S3-4	
C241		S7-5	40	ORN			S3-5	
C242		S3-4	38	RED			S8-4	
C243		S3-5	40	ORN			S8-5	
C244		S8-4	38	RED			S9-4	
C245		S8-5	40	ORN			S9-5	
C246		S9-4	38	RED			S2-4	
C247		S9-5	40	ORN			S2-5	
C248		S12-4	38	RED			S15-4	
C249		S12-5	40	ORN			S15-5	
C250		S15-4	38	RED			S6-4	
C251		S15-5	40	ORN			S16-5	
C252		S16-4	38	RED			S13-4	
C253		S16-5	40	ORN			S13-5	
C254		S13-4	38	RED			S10-4	
C255		S13-5	40	ORN			S11-4	
C256		S10-4	38	RED			S11-5	
C257		S10-5	40	ORN			S14-5	
C258		S11-4	38	RED			S17-4	
C259		S11-5	40	ORN			S17-5	
C260		S14-4	38	RED			S18-3	
C261		S14-5	40	ORN				
C262		S17-1	35	YEL				
C263	SEE NOTE 6	P12-184	32	WHT			62	SEE NOTE 6
C264	SEE NOTE 6	P12-183	41				63	SEE NOTE 5
C265		P12-20	32				TB1-67	
C266	SEE NOTE 6	P12-9					TB1-82	SEE NOTE 6
C267		P12-7					TB2-4	
C268		P12-177					TB2-3	
C269		P12-19	32	WHT	26	AR	TB1-6A	

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	AR	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-127					TB2-60		
C6		-128					TB2-57		
C7		-129					TB2-56		
C8		-130					TB2-65		
C9		-123					TB2-72		
C10		-124					TB2-71		
C11		-125					TB2-70		
C12		-126					TB2-69		
C13		-119					TB2-76		
C14		-121					TB2-74		
C15		-122					TB2-73		
C16		-115					TB2-80		
C17		-116					TB2-79		
C18		-117					TB2-78		
C19		-118					TB2-77		
C20		-111					TB2-84		
C21		-112					TB2-83		
C22		-113					TB2-82		
C23		-114					TB2-81		
C24		-107					TB2-88		
C25		-108					TB2-87		
C26		-109					TB2-86		
C27		-110					TB2-85		
C28		-103					TB2-92		
C29		-104					TB2-91		
C30		-105					TB2-90		
C31		-106					TB2-89		
C32		-99					TB2-96		
C33		-100					TB2-95		
C34		-101					TB2-94		
C35		-102					TB2-93		
C36		-95					TB2-100		
C37		-96					TB2-99		
C38		-97					TB2-98		
C39		-98					TB2-97		
C40		-91					TB1-1		
C41		-92					TB2-103		
C42		-93					TB2-102		
C43		-94					TB2-101		
C44	SEE NOTE 6	-87					TB1-5	SEE NOTE 6	
C45		-88					TB1-4		
C46		-89					TB1-3		
C47		-90					TB1-2		
C48		-84					TB1-9		
C49		-85					TB1-8		
C50		-86					TB1-7		
C51		-79					TB1-6		
C52		-80					TB1-13		
C53		-81					TB1-12		
C54		-82					TB1-11		
C55		-73					TB1-10		
C56		-74					TB1-19		
C57		-75					TB1-18		
C58		-76					TB1-16		
C59		-77					TB1-15		
C60		-78					TB1-14		
C61		-67					TB1-25		
C62		-68					TB1-24		
C63		-69					TB1-23		
C64		-70					TB1-22		
C65		-71					TB1-21		
C66		-72					TB1-20		
C67		-61					TB1-31		
C68		-62					TB1-30		
C69		-63					TB1-29		
C70		-64					TB1-28		
C71		-65					TB1-27		
C72		-55					TB1-26		
C73		-56					TB1-37		
C74		-57					TB1-36		
C75		-58					TB1-35		
C76		-59					TB1-34		
C77		-50					TB1-33		
C78		-51					TB1-32		
C79		-52					TB1-42		
C80		-53					TB1-41		
C81		-54					TB1-39		
C82		-43					TB1-48		
C83		-44					TB1-47		
C84		P12-45	32	WHT	26	AR	TB1-46		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	AR	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-37					TB1-54		
C93		-38					TB1-53		
C94		-39					TB1-52		
C95		-40					TB1-51		
C96		-41					TB1-49		
C97		-42					TB1-50		
C98		-31					TB1-60		
C99		-32					TB1-59		
C100		-33					TB1-58		
C101		-34					TB1-57		
C102		-35					TB1-56		
C103		-36					TB1-57		
C104		-25					TB1-63		
C105		-27					TB1-62		
C106		-28					TB1-61		
C107	SEE NOTE 6	-29					TB1-62	SEE NOTE 6	
C108		-30					TB1-61		
C109		-21					TB1-71		
C110		-22					TB1-70		
C111		-23					TB1-69		
C112		-24					TB1-68		
C113		-13					TB1-76		
C114		-15					TB1-75		
C115		-16					TB1-74		
C116		-17					TB1-73		
C117		-18					TB1-72		
C118		-7					TB1-81		
C119		-9					TB1-80		
C120		-10					TB1-79		
C121		-11					TB1-78		
C122		-12					TB1-77		
C123		-1					TB1-87		
C124		-3					TB1-86		
C125		-4					TB1-85		
C126		-5					TB1-84		
C127		P12-6	32	WHT	26	AR	TB1-83		
C128		S16-1	35	YEL			TB1-83		
C129		S5-4	38	RED			S19-4		
C130		S5-5	40	ORN			S15-5		
C131		S19-4	38	RED			S1-4		
C132		S19-5	40	ORN			S1-5		
C133		S1-4	38	RED			S18-4		
C134		S1-5	40	ORN			S4-4		
C135	SEE NOTE 5	S18-4	38	RED			S4-5	SEE NOTE 5	
C136		S18-5	40	ORN			S2-2		
C137		J8-3	33	WHT			S1-2		
C138		-5					S3-2		
C139		-8					S19-3		
C140		-9					S4-2		
C141		-10					S5-2		
C142		-11					S10-2		
C143		J8-13	33				S5-2		
C144		P12-135	32				TB2-60		
C145		-136					TB2-59		
C146	SEE NOTE 6	-137					TB2-58	SEE NOTE 6	
C147		-138					TB2-57		
C148		-139					TB2-56		
C149		P12-140	32				TB2-55		
C150	SEE NOTE 5	J8-14	33				S12-2	SEE NOTE 5	
C151		J8-15	33				S6-2		
C152		P12-141	32				TB2-54		
C153		-142					TB2-53		
C154	SEE NOTE 6	-143					TB2-52	SEE NOTE 6	
C155		-144					TB2-51		
C156		-145					TB2-50		
C157		P12-146	32				TB2-49		
C158	SEE NOTE 5	J8-16	33				S7-2	SEE NOTE 5	
C159		J8-17	33				S9-2		
C160		P12-147	32				TB2-48		
C161		-148					-47		
C162		-149					-46		
C163		-150					-45		
C164		-151					-44		
C165	SEE NOTE 6	-152					-43	SEE NOTE 6	
C166		-153					-42		
C167		-154					-41		
C168		-155					-40		
C169		-156					-39		
C170		-157					-38		
C171		P12-158	32				TB2-37		
C172	SEE NOTE 5	J8-18	33				S11-2	SEE NOTE 5	
C173		J8-19	33				S8-2		
C174		P12-159	32				TB2-36		
C175	SEE NOTE 6	P12-160	32				TB2-35	SEE NOTE 6	
C176		P12-161	32	WHT	26	AR	TB2-34		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26		AR	TB2-33	
C178	SEE NOTE 6	P12-163	32					TB2-32	SEE NOTE 6
C179		P12-164	32					TB2-31	
C180	SEE NOTE 5	J8-20	33					S13-2	
C181		J8-21	33					S1-3	SEE NOTE 5
C182		P12-165	32					TB2-30	
C183		-166						-29	
C184	SEE NOTE 6	-167						-28	SEE NOTE 6
C185		-168						-27	
C186		-169						-26	
C187		P12-170	32					TB2-25	
C188	SEE NOTE 5	J8-22	33					S14-2	SEE NOTE 5
C189		P12-190	32					TB2-16	
C190		-174						-24	
C191	SEE NOTE 6	-175						-23	SEE NOTE 6
C192		P12-176	32					TB2-22	
C193	SEE NOTE 5	J8-24	33					S15-2	SEE NOTE 5
C194		J8-25	33					S18-1	
C195		P12-196	32					TB2-12	
C196	SEE NOTE 6	-192						-14	SEE NOTE 6
C197		-204						-7	
C198		P12-192	32					TB2-20	
C199	SEE NOTE 5	J8-26	33					S16-2	SEE NOTE 5
C200		J8-27	33					S17-2	
C201		P12-185	32					TB2-19	
C202	SEE NOTE 6	-210						-1	SEE NOTE 6
C203		-187						-17	
C204		-195						-13	
C205		-181	32	WHT				TB2-21	
C206	SEE NOTE 8	-194	40	ORN				S6-5	
C207		P12-194	38	RED				S6-4	SEE NOTE 5
C208		J8-30	33	WHT				S18-2	
C209		P12-197	32	WHT				TB2-11	
C210		-209						-2	
C211	SEE NOTE 6	-191						-15	SEE NOTE 6
C212		-201						-10	
C213		-202						-9	
C214		-203						-8	
C215		-186						-18	
C216		-207						-6	
C217		-208	32	WHT				TB2-5	
C218		P12-179	33	WHT				S19-2	
C219		S1-1	35	YEL				S2-3	
C220		S2-1						S3-3	
C221		S3-1						S4-3	
C222		S4-1						S5-3	
C223		S5-1						S6-3	
C224		S6-1						S7-3	
C225		S7-1						S8-3	
C226		S8-1						S9-3	
C227		S9-1						S10-3	
C228		S10-1						S11-3	
C229		S11-1						S12-3	
C230		S12-1						S13-3	
C231		S13-1						S14-3	
C232		S14-1						S15-3	
C233	SEE NOTE 5	S15-1	35	YEL				S16-3	
C234		S17-4	38	RED				S5-4	
C235		S17-5	40	ORN				S5-5	
C236		S6-4	38	RED				S2-4	
C237		S6-5	40	ORN				S2-5	
C238		S2-4	38	RED				S7-4	
C239		S2-5	40	ORN				S3-4	
C240		S7-4	38	RED				S3-5	SEE NOTE 5
C241		S7-5	40	ORN				S3-5	
C242		S3-4	38	RED				S8-4	
C243		S3-5	40	ORN				S8-5	
C244		S8-4	38	RED				S9-4	
C245		S8-5	40	ORN				S9-5	
C246		S9-4	38	RED				S10-4	
C247		S9-5	40	ORN				S11-4	
C248		S10-4	38	RED				S12-4	
C249		S10-5	40	ORN				S12-5	
C250		S15-4	38	RED				S15-4	
C251		S16-5	40	ORN				S16-5	
C252		S16-4	38	RED				S13-4	
C253		S16-5	40	ORN				S13-5	
C254		S13-4	38	RED				S10-4	
C255		S13-5	40	ORN				S10-5	
C256		S10-4	38	RED				S11-4	
C257		S10-5	40	ORN				S11-5	
C258		S11-4	38	RED				S14-4	
C259		S11-5	40	ORN				S14-5	
C260		S14-4	38	RED				S17-4	
C261		S14-5	40	ORN				S17-5	
C262		S17-1	35	YEL				S18-3	
C263	SEE NOTE 6	P12-184	32	WHT				63	SEE NOTE 6
C264	SEE NOTE 6	P12-183	41					63	SEE NOTE 5
C265		P12-20	32					TB1-67	
C266	SEE NOTE 6	P12-8						TB1-82	SEE NOTE 6
C267		P12-173						TB2-4	
C268		P12-177						TB2-3	
C269		P12-19	32	WHT	26	AR		TB1-86	

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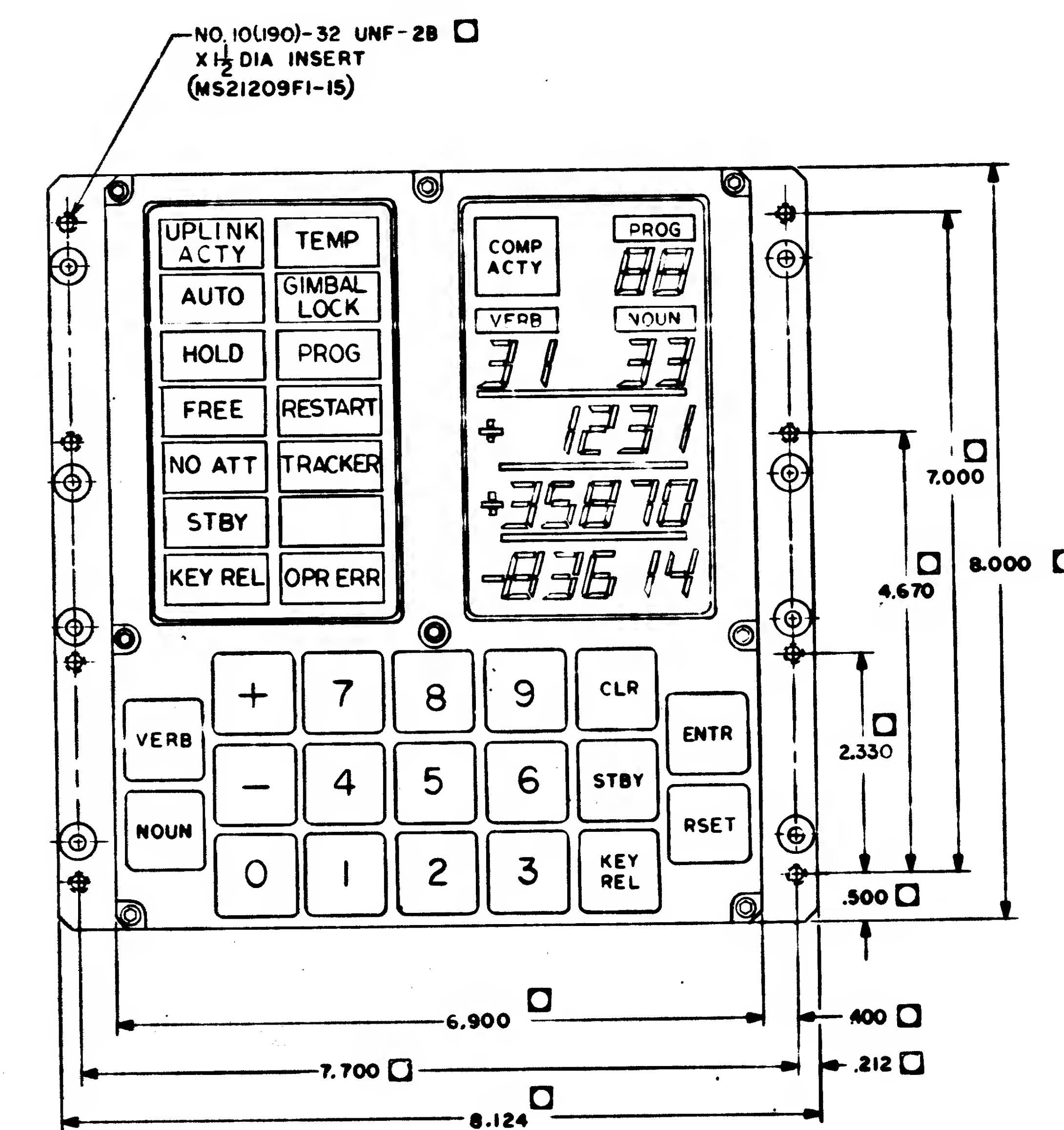
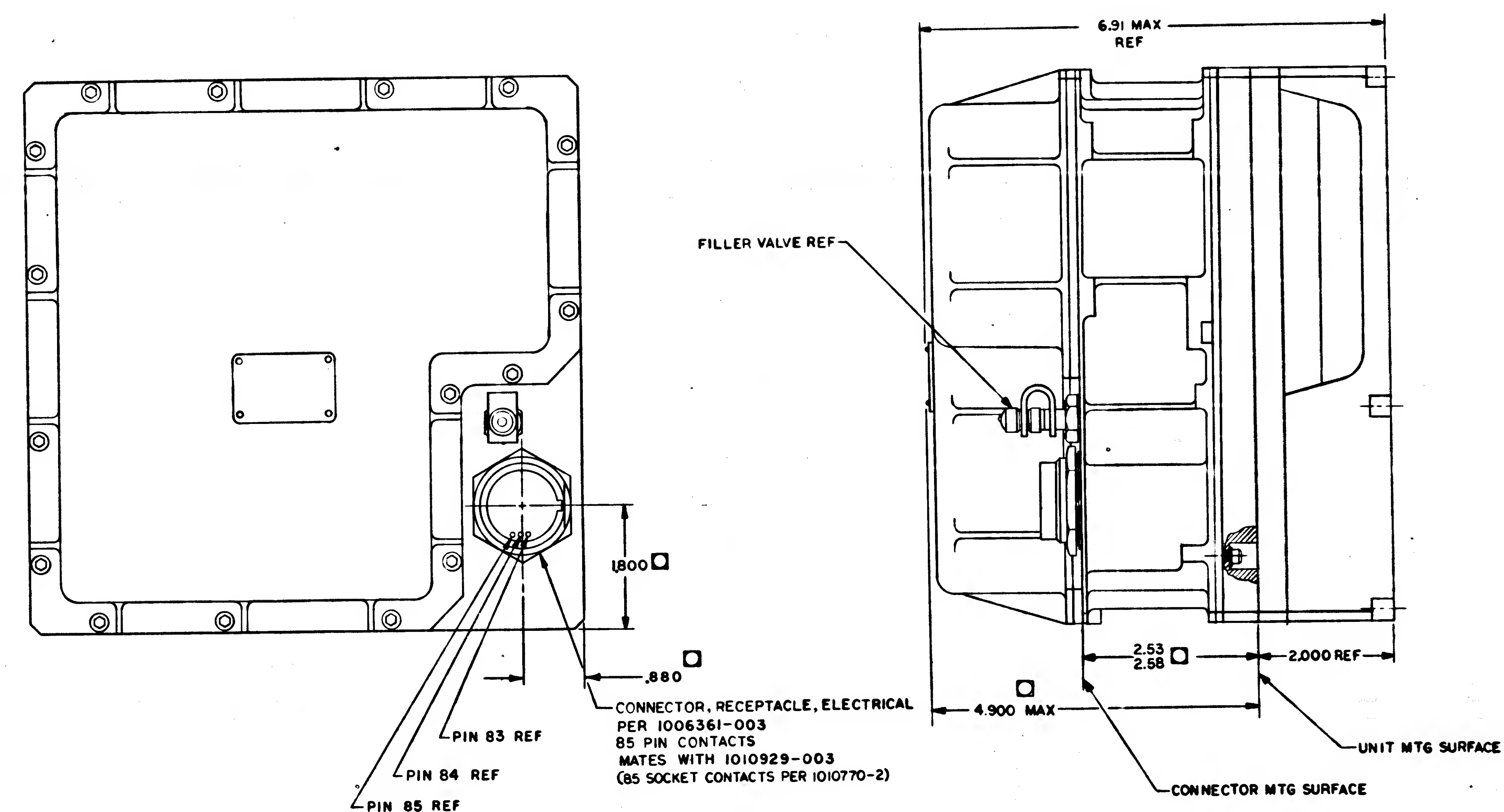
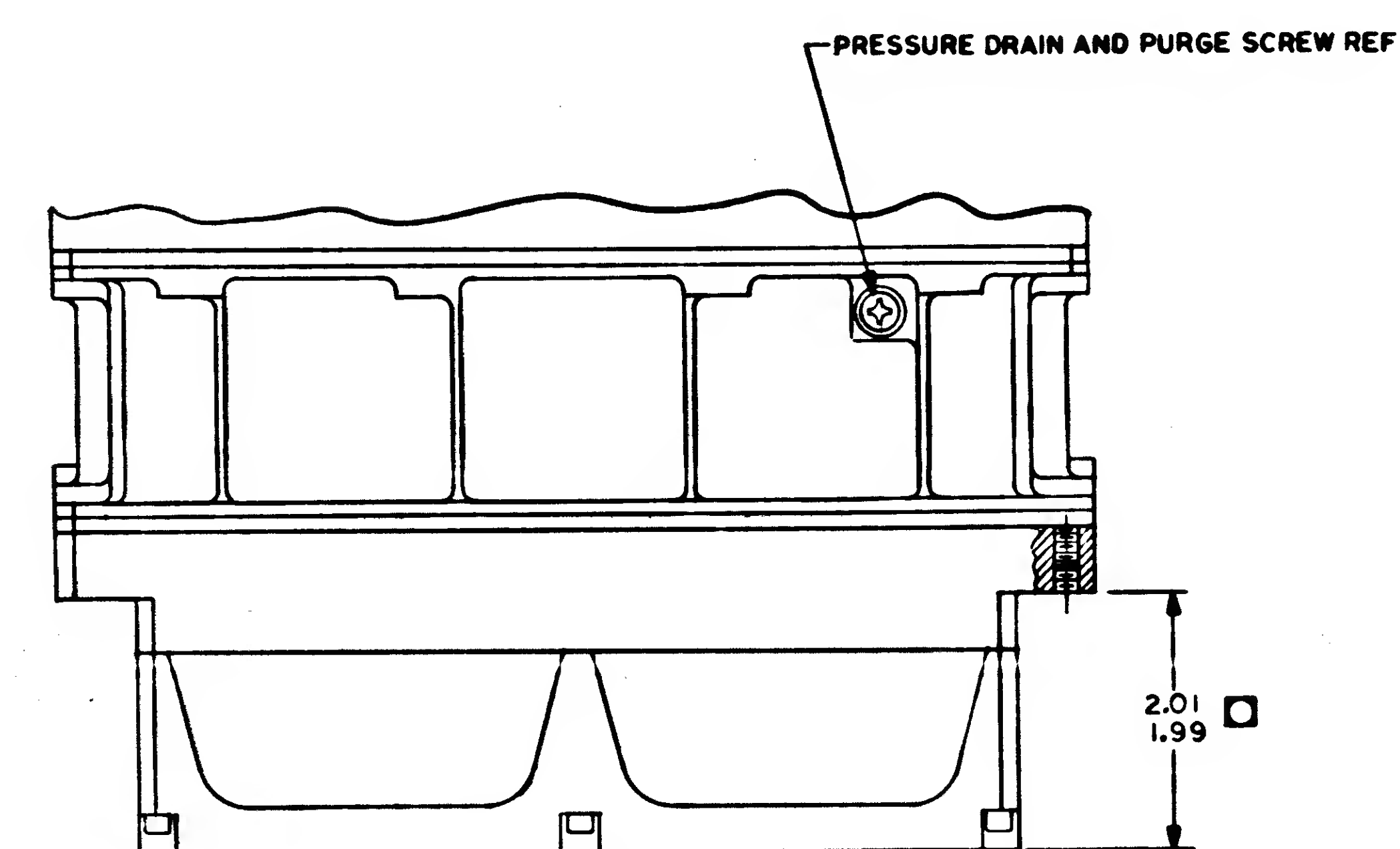
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LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	A R	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-135					TB2-60		
C6		-136					TB2-59		
C7		-137					TB2-58		
C8		-138					TB2-57		
C9		-139					TB2-56		
C10		-140					TB2-55		
C11		-141					TB2-54		
C12		-142					TB2-53		
C13		-143					TB2-52		
C14		-144					TB2-51		
C15		-145					TB2-50		
C16		-146					TB2-49		
C17		-147					TB2-48		
C18		-148					TB2-47		
C19		-149					TB2-46		
C20		-150					TB2-45		
C21		-151					TB2-44		
C22		-152					TB2-43		
C23		-153					TB2-42		
C24		-154					TB2-41		
C25		-155					TB2-40		
C26		-156					TB2-39		
C27		-157					TB2-38		
C28		-158					TB2-37		
C29		-159					TB2-36		
C30		-160					TB2-35		
C31		-161					TB2-34		
C32		-162					TB2-33		
C33		-163					TB2-32		
C34		-164					TB2-31		
C35		-165					TB2-30		
C36		-166					TB2-29		
C37		-167					TB2-28		
C38		-168					TB2-27		
C39		-169					TB2-26		
C40		-170					TB2-25		
C41		-171					TB2-24		
C42		-172					TB2-23		
C43		-173					TB2-22		
C44		-174					TB2-21		
C45		-175					TB2-20		
C46		-176					TB2-19		
C47		-177					TB2-18		
C48		-178					TB2-17		
C49		-179					TB2-16		
C50		-180					TB2-15		
C51		-181					TB2-14		
C52		-182					TB2-13		
C53		-183					TB2-12		
C54		-184					TB2-11		
C55		-185					TB2-10		
C56		-186					TB2-9		
C57		-187					TB2-8		
C58		-188					TB2-7		
C59		-189					TB2-6		
C60		-190					TB2-5		
C61		-191					TB2-4		
C62		-192					TB2-3		
C63		-193					TB2-2		
C64		-194					TB2-1		
C65		-195					TB2-0		
C66		-196					TB2-0		
C67		-197					TB2-0		
C68		-198					TB2-0		
C69		-199					TB2-0		
C70		-200					TB2-0		
C71		-201					TB2-0		
C72		-202					TB2-0		
C73		-203					TB2-0		
C74		-204					TB2-0		
C75		-205					TB2-0		
C76		-206					TB2-0		
C77		-207					TB2-0		
C78		-208					TB2-0		
C79		-209					TB2-0		
C80		-210					TB2-0		
C81		-211					TB2-0		
C82		-212					TB2-0		
C83		-213					TB2-0		
C84		-214					TB2-0		
C85		-215					TB2-0		
C86		-216					TB2-0		
C87		-217					TB2-0		
C88		-218					TB2-0		
C89		-219					TB2-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	A R	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-49					TB1-42		
C93		-50					TB1-41		
C94		-51					TB1-40		
C95		-52					TB1-39		
C96		-53					TB1-38		
C97		-54					TB1-37		
C98		-55					TB1-36		
C99		-56					TB1-35		
C100		-57					TB1-34		
C101		-58					TB1-33		
C102		-59					TB1-32		
C103		-60					TB1-31		
C104		-61					TB1-30		
C105		-62					TB1-29		
C106		-63					TB1-28		
C107		-64					TB1-27		
C108		-65					TB1-26		
C109		-66					TB1-25		
C110		-67					TB1-24		
C111		-68					TB1-23		
C112		-69					TB1-22		
C113		-70					TB1-21		
C114		-71					TB1-20		
C115		-72					TB1-19		
C116		-73					TB1-18		
C117		-74					TB1-17		
C118		-75					TB1-16		
C119		-76					TB1-15		
C120		-77					TB1-14		
C121		-78					TB1-13		
C122		-79					TB1-12		
C123		-80					TB1-11		
C124		-81					TB1-10		
C125		-82					TB1-9		
C126		-83					TB1-8		
C127		-84					TB1-7		
C128		-85					TB1-6		
C129		-86					TB1-5		
C130		-87					TB1-4		
C131		-88					TB1-3		
C132		-89					TB1-2		
C133		-90					TB1-1		
C134		-91					TB1-0		
C135		-92					TB1-0		
C136		-93					TB1-0		
C137		-94					TB1-0		
C138		-95					TB1-0		
C139		-96					TB1-0		
C140		-97					TB1-0		
C141		-98					TB1-0		
C142		-99					TB1-0		
C143		-100					TB1-0		
C144		-101					TB1-0		
C145		-102					TB1-0		
C146		-103					TB1-0		
C147		-104					TB1-0		
C148		-105					TB1-0		
C149		-106					TB1-0		
C150		-107					TB1-0		
C151		-108					TB1-0		
C152		-109					TB1-0		
C153		-110					TB1-0		
C154		-111					TB1-0		
C155		-112					TB1-0		
C156		-113					TB1-0		
C157		-114					TB1-0		
C158		-115					TB1-0		
C159		-116					TB1-0		
C160		-117					TB1-0		
C161		-118					TB1-0		
C162		-119					TB1-0		
C163		-120					TB1-0		
C164		-121					TB1-0		
C165		-122					TB1-0		
C166		-123					TB1-0		
C167		-124					TB1-0		
C168		-125					TB1-0		
C169		-126					TB1-0		
C170		-127					TB1-0		
C171		-128					TB1-0		
C172		-129					TB1-0		
C173		-130					TB1-0		
C174		-131					TB1-0		
C175		-132					TB1-0		
C176		-133					TB1-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26		AR	TB2-33	
C178	SEE NOTE 6	P12-163	32					TB2-32	SEE NOTE 6
C179		P12-164	32					TB2-31	
C180	SEE NOTE 5	J8-20	33					TB2-30	SEE NOTE 5
C181		J8-21	33					TB2-29	
C182		P12-165	32					TB2-28	
C183		-166						TB2-27	
C184	SEE NOTE 6	-167						TB2-26	SEE NOTE 6
C185		-168						TB2-25	
C186		-169						TB2-24	
C187		P12-170	32					TB2-23	
C188	SEE NOTE 5	J8-22	33					TB2-22	SEE NOTE 5
C189		P12-150	32					TB2-16	
C190		-174						TB2-21	
C191	SEE NOTE 6	-175						TB2-20	SEE NOTE 6
C192		P12-176	32					TB2-22	
C193	SEE NOTE 5	J8-24	33					TB2-22	SEE NOTE 5
C194		J8-25	33					TB2-21	
C195		P12-196	32					TB2-12	
C196	SEE NOTE 6	-197						TB2-11	SEE NOTE 6
C197		-204						TB2-10	
C198		P12-192	32					TB2-20	
C199	SEE NOTE 5	J8-26	33					TB2-19	SEE NOTE 5
C200		J8-27	33					TB2-18	
C201		P12-185	32					TB2-19	
C202	SEE NOTE 6	-210						TB2-19	SEE NOTE 6
C203		-187						TB2-19	
C204		-188						TB2-19	
C205		-181						TB2-19	
C206	SEE NOTE 5	-193	40	ORN				TB2-19	SEE NOTE 5
C207		M2-194	38	REF				TB2-19	
C208		J8-30	33	WHT				TB2-19	
C209		P12-197	32	WHT				TB2-11	
C210		-209						TB2-11	
C211	SEE NOTE 6	-191						TB2-11	SEE NOTE 6
C212		-201						TB2-11	
C213		-202						TB2-11	
C214		-203						TB2-11	
C215		-186						TB2-11	
C216		-207						TB2-11	
C217		-208	32	WHT				TB2-11	
C218		P12-179	33	WHT				TB2-11	
C219		S1-1	35	YEL				TB2-11	
C220		S2-1						TB2-11	
C221		S3-1						TB2-11	
C222		S4-1						TB2-11	
C223		S5-1						TB2-11	
C224		S6-1						TB2-11	
C225		S7-1						TB2-11	
C226		S8-1						TB2-11	
C227		S9-1						TB2-11	
C228		S10-1						TB2-11	
C229		S11-1						TB2-11	
C230		S12-1						TB2-11	
C231		S13-1						TB2-11	
C232		S14-1						TB2-11	
C233	SEE NOTE 5	S15-1	35	YEL				TB2-11	SEE NOTE 5
C234		S17-4	38	RED				TB2-11	
C235		S17-5	40	ORN				TB2-11	
C236		S6-4	38	RED				TB2-11	
C237		S6-5	40	ORN				TB2-11	
C238		S2-4	38	RED				TB2-11	
C239		S2-5	40	ORN				TB2-11	
C240		S7-4	38	RED				TB2-11	
C241		S7-5	40	ORN				TB2-11	
C242		S3-4	38	RED				TB2-11	
C243		S3-5	40	ORN				TB2-11	
C244		S8-4	38	RED				TB2-11	
C245		S8-5	40	ORN				TB2-11	
C246		S9-4	38	RED				TB2-11	
C247		S9-5	40	ORN				TB2-11	
C248		S12-4	38	RED				TB2-11	
C249		S12-5	40	ORN				TB2-11	
C250		S15-4	38	RED				TB2-11	
C251		S15-5	40	ORN				TB2-11	
C252		S16-4	38	RED				TB2-11	
C253		S16-5	40	ORN				TB2-11	
C254		S13-4	38	RED				TB2-11	
C255		S13-5	40	ORN				TB2-11	
C256		S10-4	38	RED				TB2-11	
C257		S10-5	40	ORN				TB2-11	
C258		S11-4	38	RED				TB2-11	
C259		S11-5	40	ORN				TB2-11	
C260		S14-4	38	RED				TB2-11	
C261		S14-5	40	ORN				TB2-11	
C262		S17-1	35	YEL				TB2-11	
C263	SEE NOTE 6	P12-184	32	WHT				TB2-11	SEE NOTE 6
C264	SEE NOTE 6	P12-183	32					TB2-11	SEE NOTE 6
C265		P12-20	32					TB1-67	SEE NOTE 6
C266	SEE NOTE 6	P12-8						TB1-82	SEE NOTE 6
C267		P12-173						TB2-4	
C268		P12-177						TB2-3	
C269		P12-15	32	WHT	26		AR	TB1-66	

2003956

REVISIONS 22943
DATE APPROVAL

NOTES

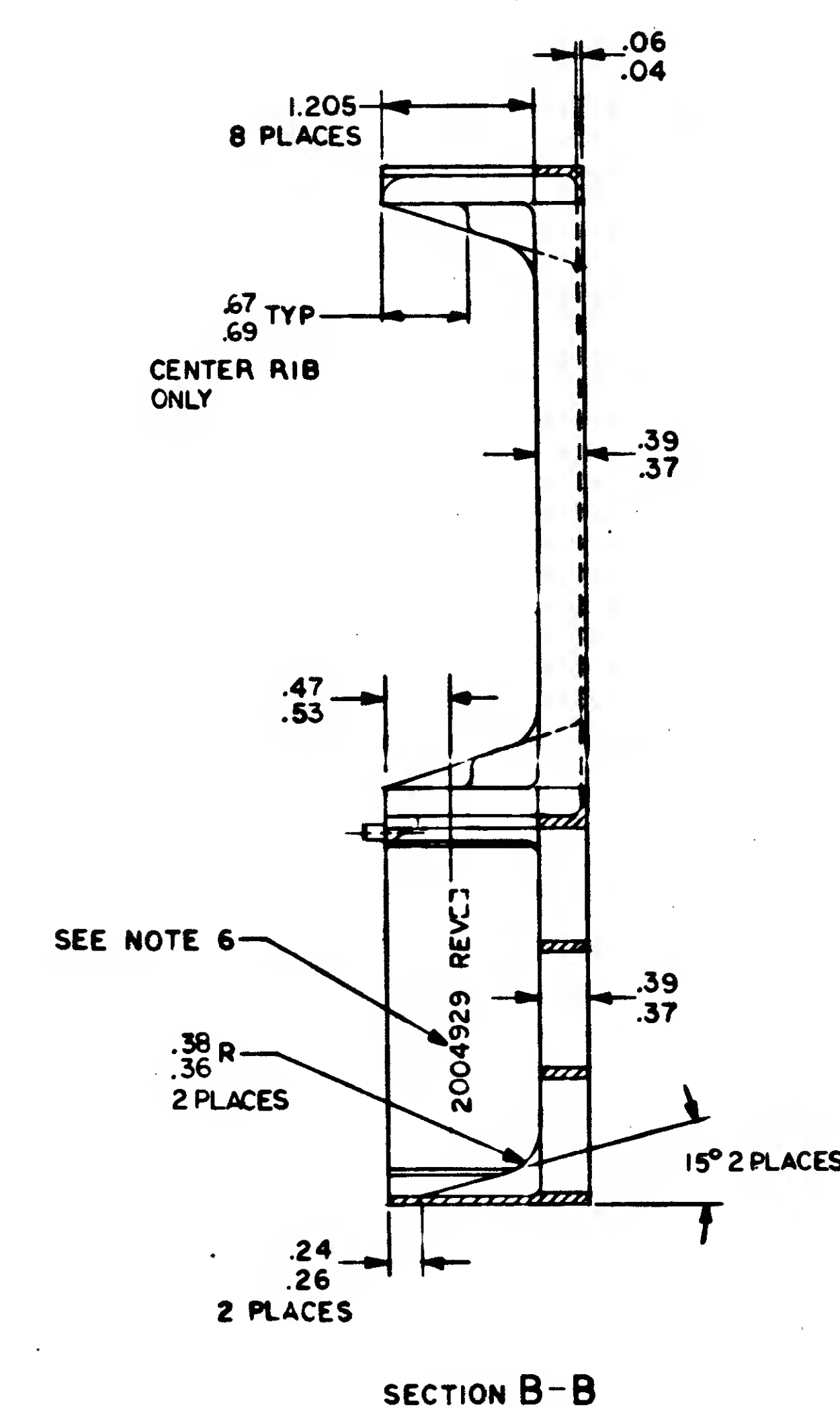
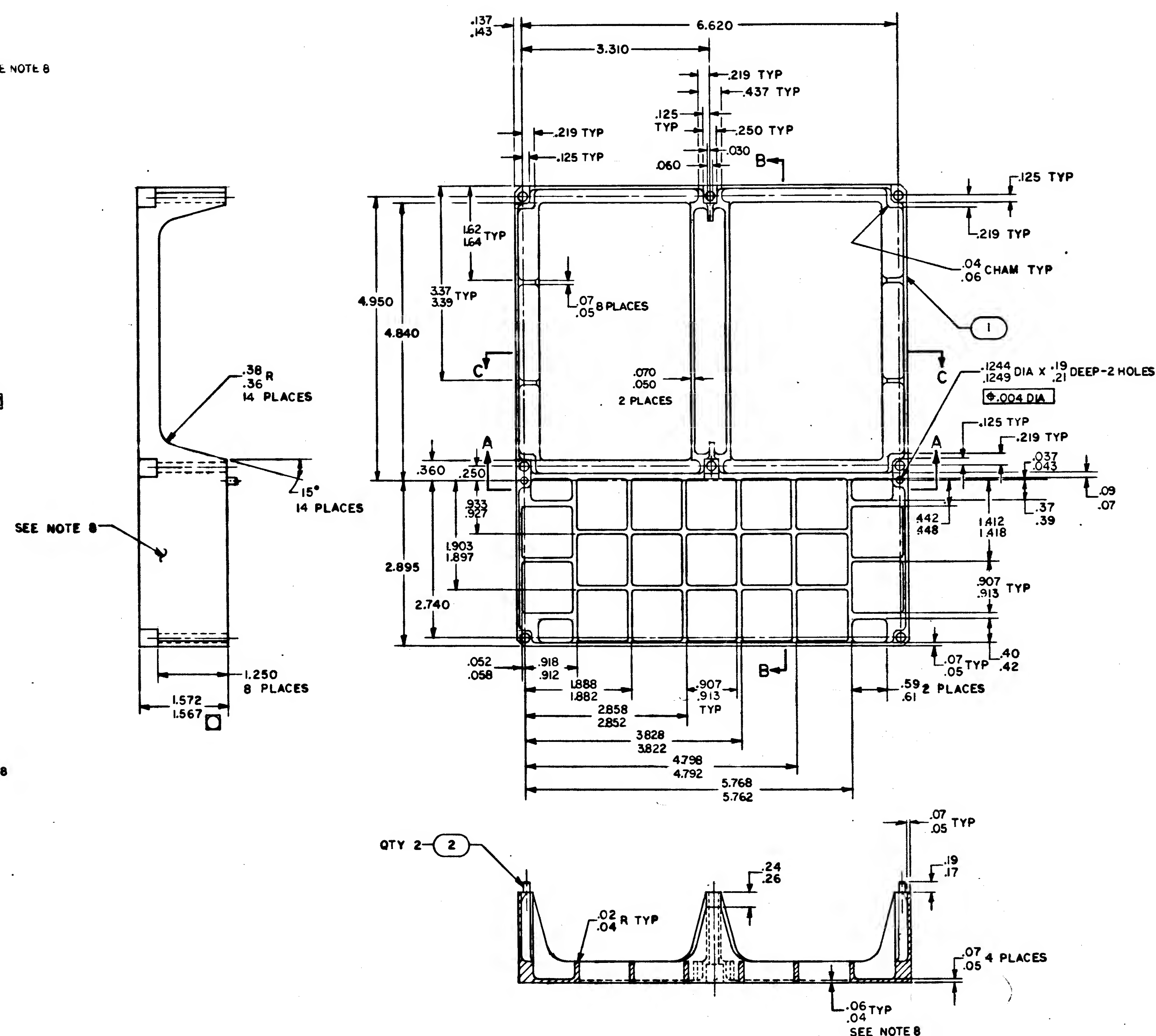
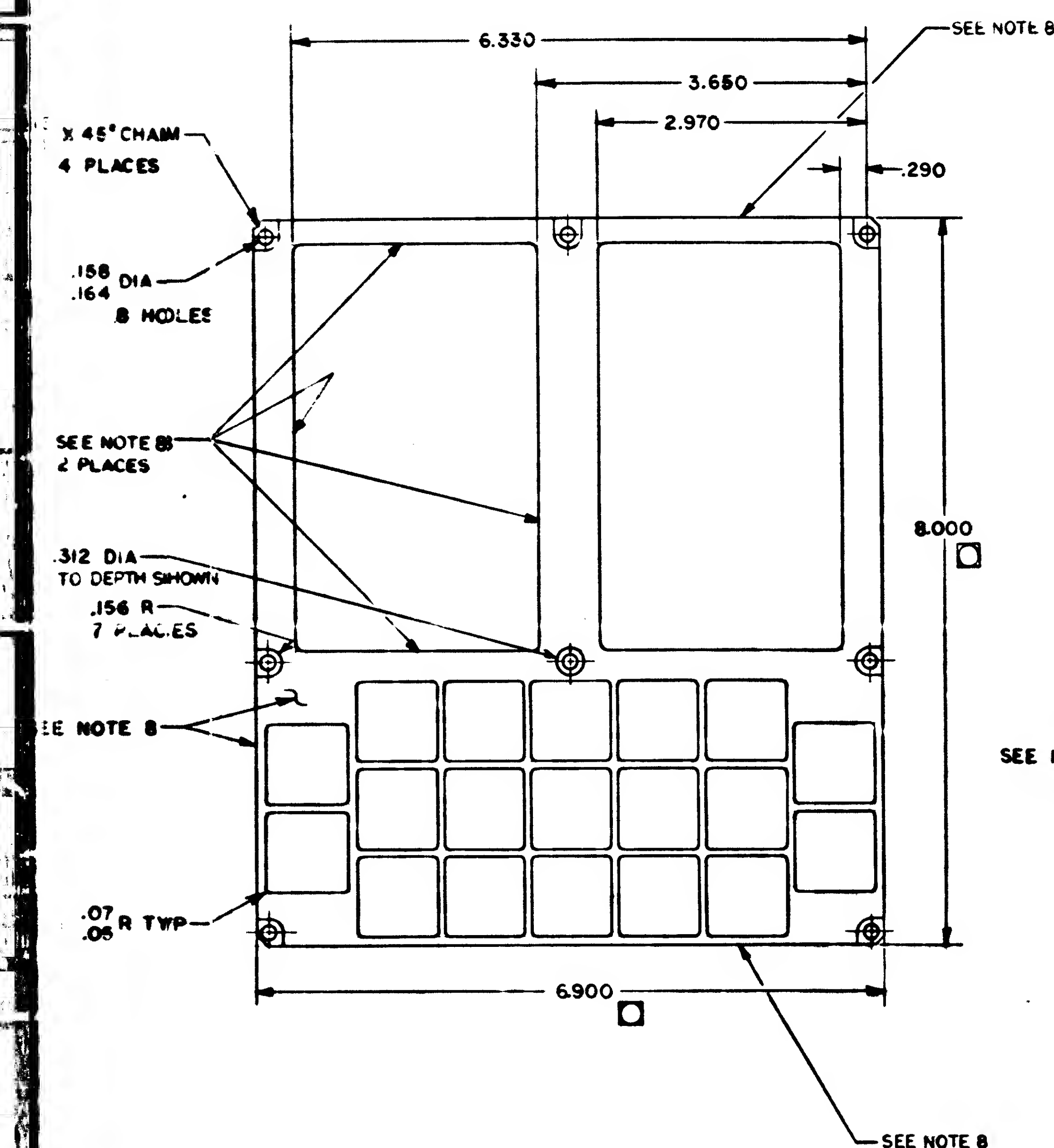
1. DIMENSIONS CONTROLLED BY ICD MHOI-01305-116
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. WEIGHT *Later*
4. INDICATES CENTER OF GRAVITY *Later*

2003956

2003956

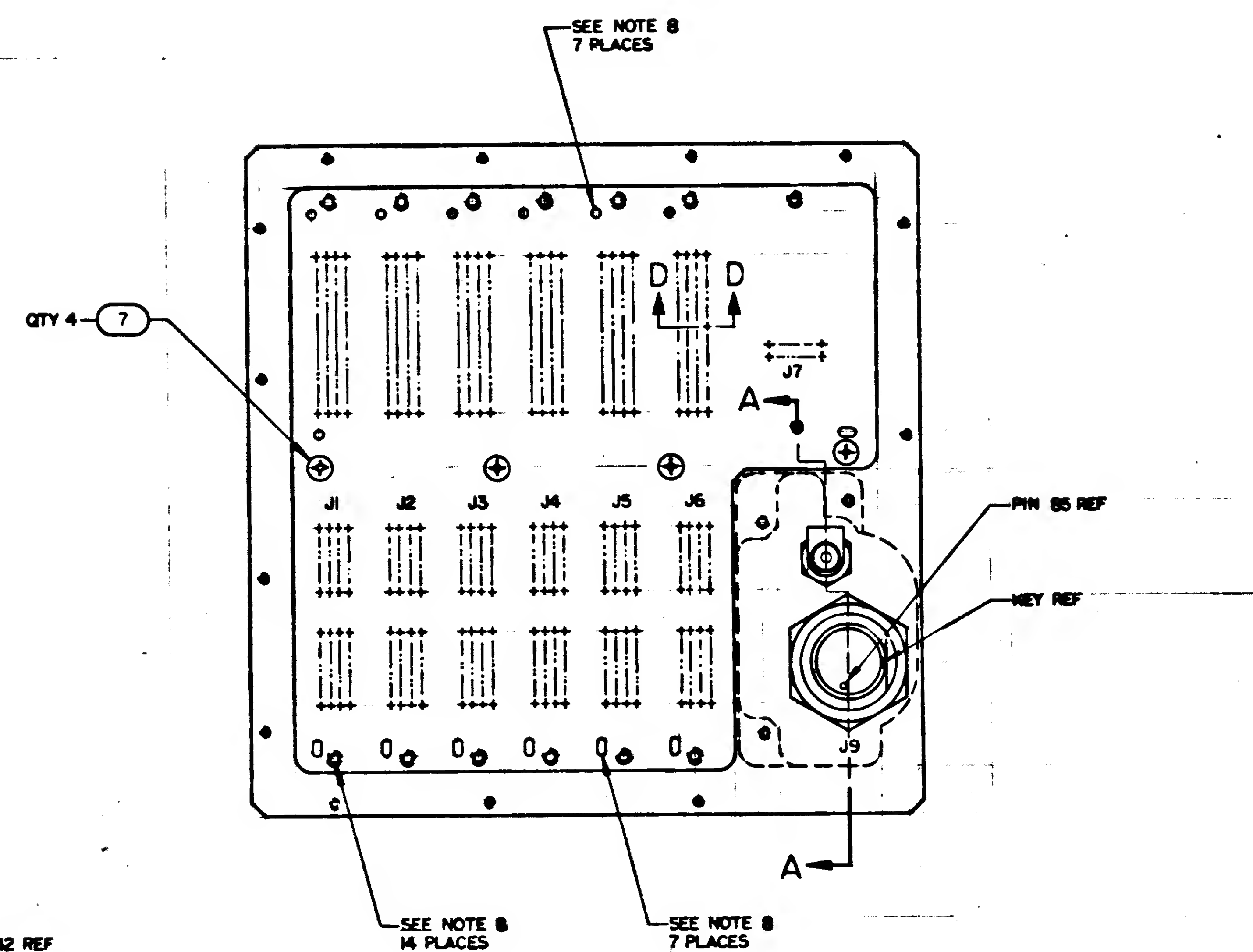
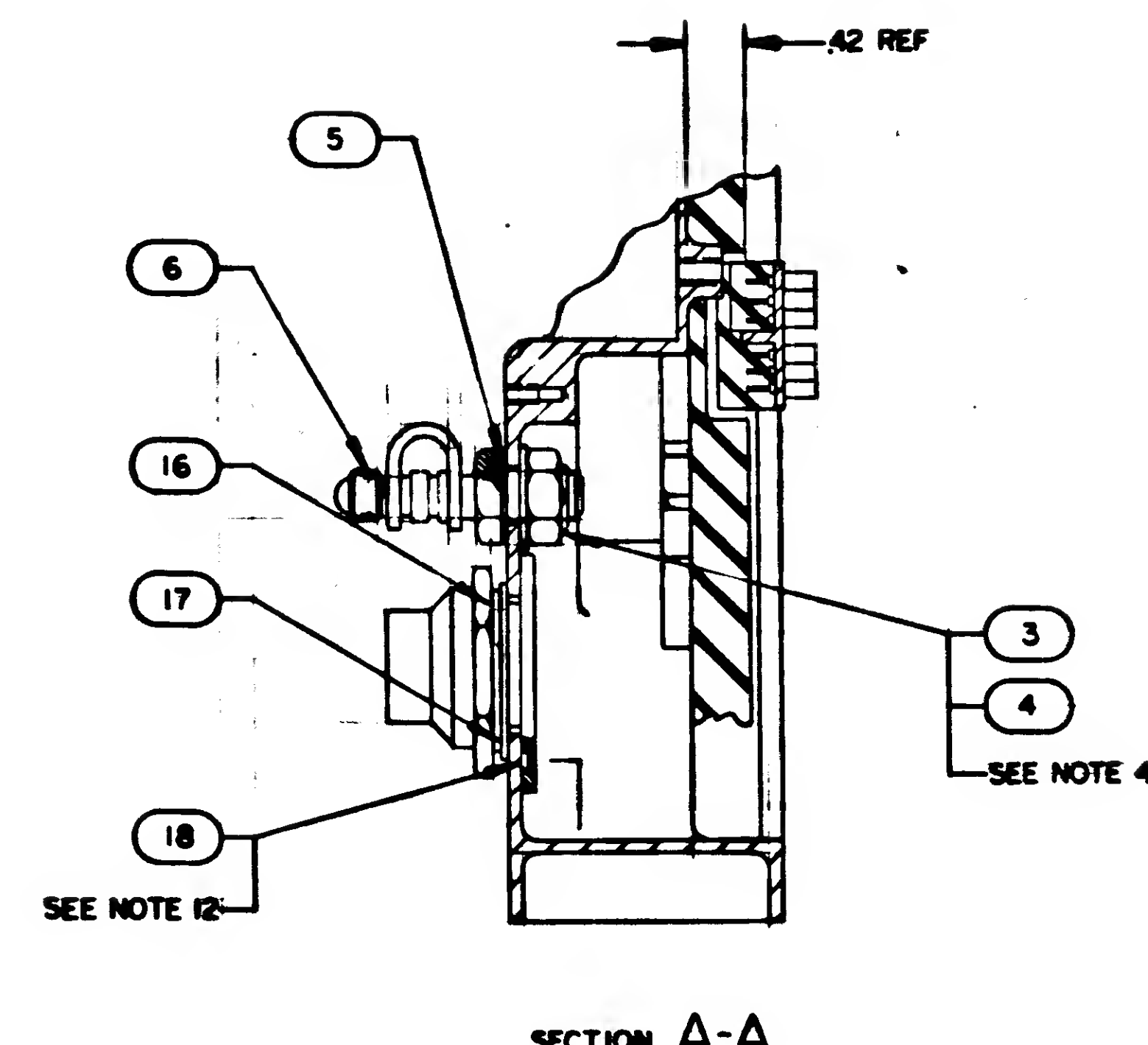
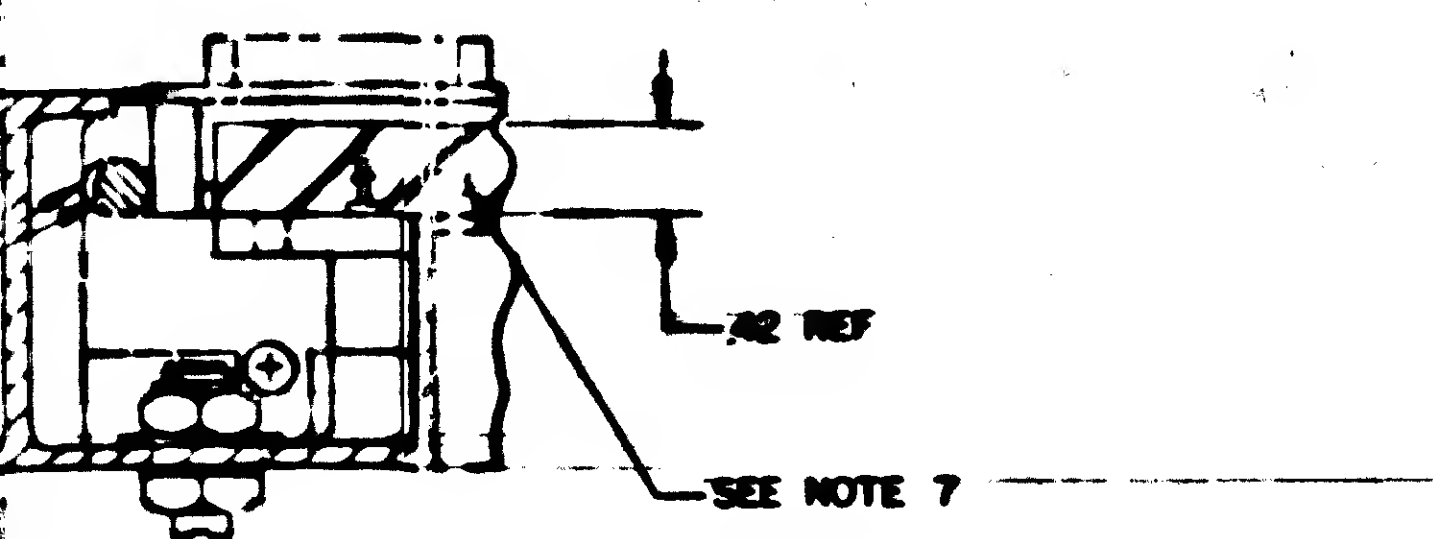
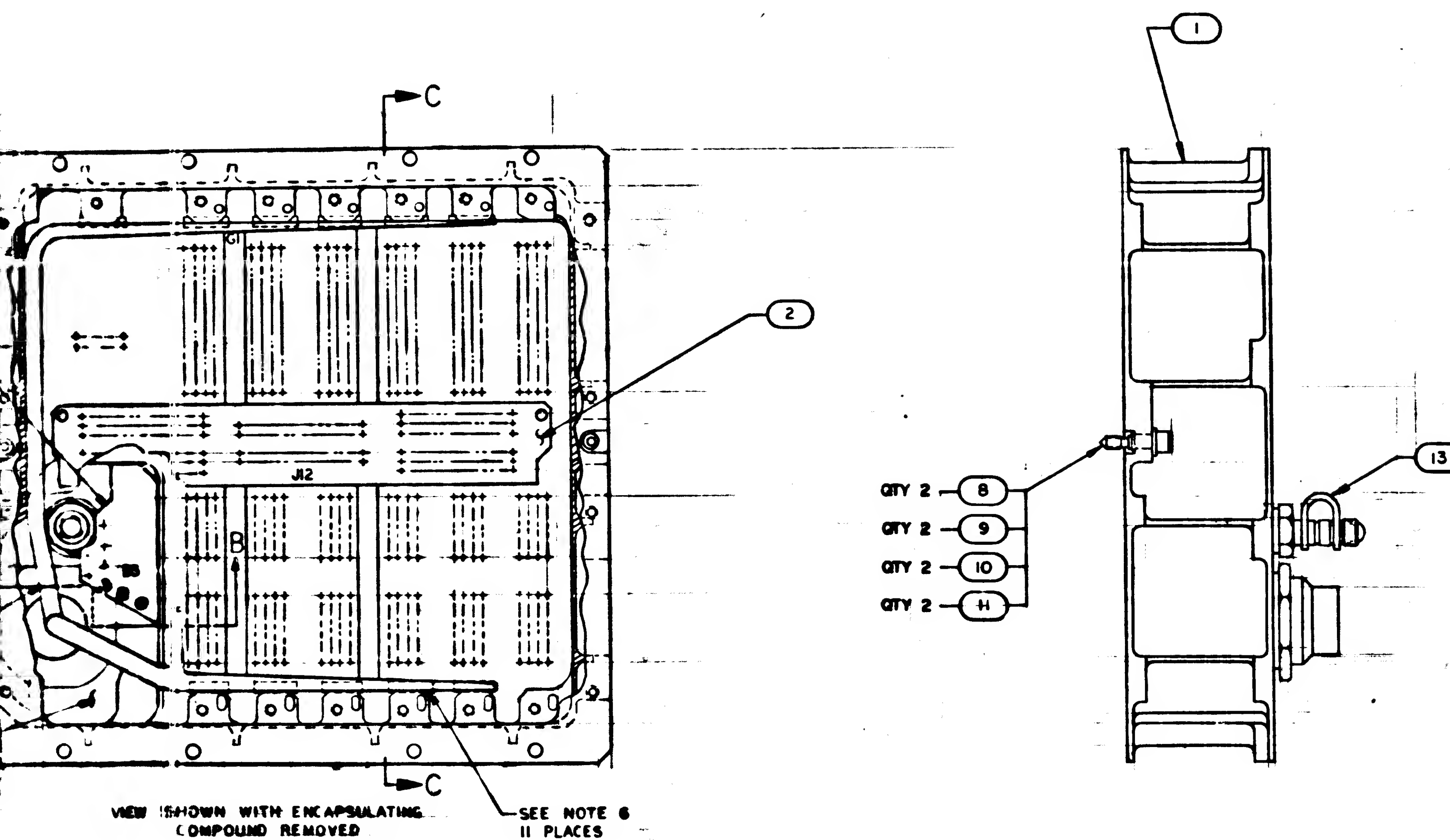
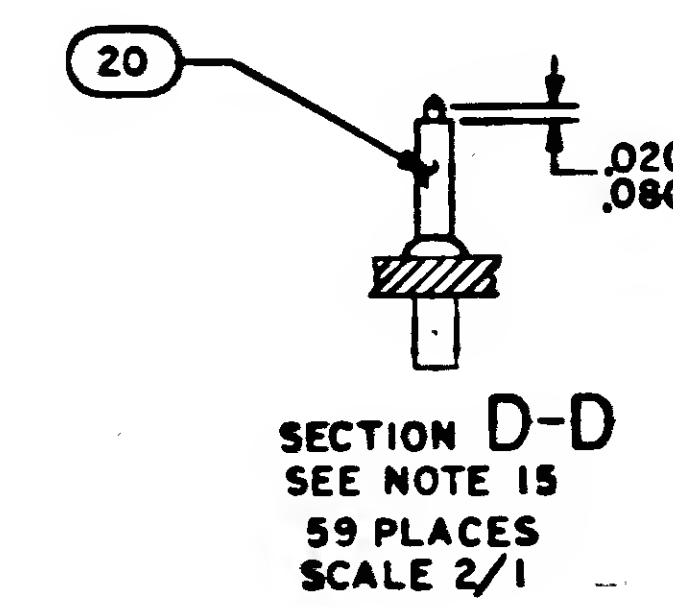
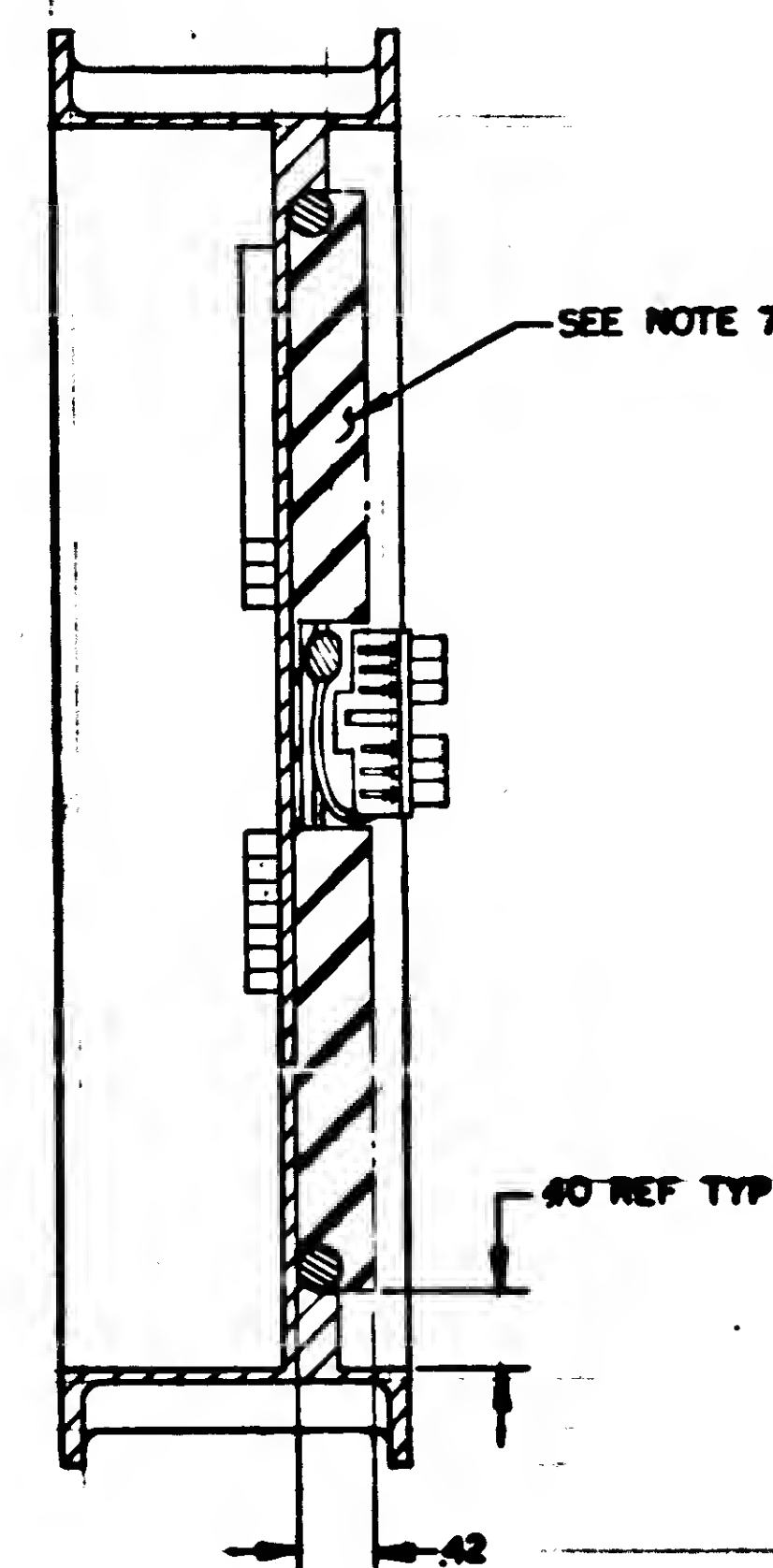
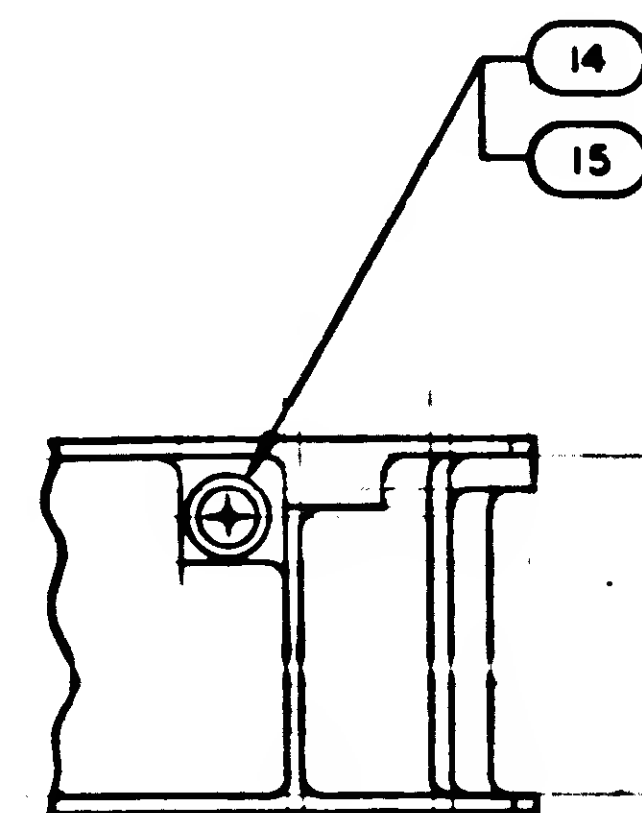
5003222

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO
LIST OF MATERIALS			
MIT F INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON TEXAS			
AGC DSKY			
OUTLINE DRAWING			
NASA APPROVAL <i>[Signature]</i>		CODE IDENT NO 80230	SIZE 2003956
MIT APPROVAL <i>[Signature]</i>		SCALE 1/1	SHEET 1 OF 1



1. MAT: 6061-T6-AL PER QQ-A-250/10,ITEMP 6
2. REMOVE BURRS AND SHARP EDGES,005/OIS
3. ALL SURFACES 125/
4. CHPMATE PER MIL-C-5541,TYPE II,GRADE C,CLASS B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
AND CHAMFERS TO BE 1/8"
6. MARK 1/4" HIGH BLACK CHARACTERS PER
ND1002019 AND ND1002122,TYPE II,CLASS 2
USING INK 100627-0
7. DIMENSIONS CONTROLLED BY ICD MH01
8. DIMENSIONS INDICATED SURFACES WITH ICD 7028-1
9. MAY BE EXAMINED BY X-RAY PER ND1002019
10. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327

2	MSIG555-625	PIN, DOWEL
1	2004929-001	COVER, FRONT
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
011		
LIST OF MATERIALS		
BIT INSTRUMENTATION LAB Component Name		MANNED SPACECRAFT CENTER HOUSTON, TEXAS
USE OR DATE	CONTRACT NO.	
DRAWN BY <i>WJH</i> DATE <i>11/11/68</i> CHECKED <i>WJH</i> APPROVAL <i>WJH</i>		COVER, FRONT AGC DSKY
NASA APPROVAL <i>WJH</i> MIT APPROVAL <i>WJH</i>		U.S. IDENT. NO. 80230 J NASA DRAWING NO. 2004929



X	2005954	INTERCONNECTING DIAGRAM	REF
A R	1006776-21	INSULATION SLEEVING	20
	1 2003880-011	TERMINAL BLOCK ASSY	19
	1 100069-10	PACKING, PREFORMED O-RING	18
	1 1004546-6	WASHER, FLAT	17
	1 1010635-004	WASHER, LOCK	16
	1 NAS159DBDN01	WASHER, SEALING	15
	1 M5S1957-42	SCHREW, PAN HD, CROSS RECESSED	14
	1 2004931	RETAINER, VALVE CAP	13
	1 2003886-010	WIRING HARNESS, BRANCHED	12
	2 MS16633 -4015	RINC., RETAINING	11
	2 1004546-3	WASHER, FLAT	10
	2 1004546-1	WASHER, FLAT	9
	2 1004579-2	SCHREW, JACKING	8
	4 MS15199-2-8	SCHREW, FLAT HD, CROSS RECESSED	7
	1 2004903-	VALVE PNEUMATIC TANK	6
	1 100019-14	PACKING, PREFORMED, O-RING	5
	1 MS15795-814	WASHER, FLAT	4
	1 MS20364DE2A4	NJT, HEX	3
	1 2003882-011	CONNECTOR PLATE WIRED ASSY	2
	1 203947-011	IDM WIREWRAP PLATE ASSY	1
QTY REQD	PART OR IDENTIFYING NO.	HOMECOMPLIE OR DESCRIPTION	FIND NO.

[illegible]

2003885 A

REV	DATE	BY	APP
1	INITIAL RELEASE 79-03-27-73		

J7

J6

J5

J4

J3

J2

J1

TB3

SEE NOTE 11
4 PLACES

22

.95

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	PRD NO
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON TEXAS	
DRAWN: <i>[Signature]</i> DATE: 7/27/66		MAIN HOUSING ASSEMBLY AGC DSKY	
CHECKED: <i>[Signature]</i> DATE: 12/2/66		CODE IDENT NO: 80230 J	
APPROVAL: <i>[Signature]</i>		NASA DRAWING NO: 2003885	
NESA APPROVAL: <i>[Signature]</i>		SCALE: NONE	
NESA APPROVAL: <i>[Signature]</i>		SHEET 2 OF 3	

2/2003885

2003885 A

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE 7006 J1173	1/17/73	EV

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A1		J12-166	16	OPT	30	AR	J7-6		
A2		-167	16	OPT	30		J6-43		
A3		-159	17	WHT	26		-18		
A4		-160	16	OPT	30		-34		
A5		-154					-40		
A6		-153					-50		
A7		-148	16	OPT	30		-39		
A8		-147	17	WHT	26		-41		
A9		-142	16	OPT	30		-54		
A10		-141					-41		
A11		-136					-29		
A12		-135					-55		
A13		-187					-42		
A14		-210	16	OPT	30		-60		
A15		-182	17	WHT	26		-40		
A16		-204	16	OPT	30		-56		
A17		-192					-17		
A18		-176					-36		
A19		-175					-22		
A20		-174					J6-30		
A21		-170					J7-4		
A22		-159					J6-24		
A23		-168					J6-53		
A24		-164					J5-43		
A25		-163					-34		
A26		-162					-36		
A27		-161					-22		
A28		-158					-56		
A29		-157					-39		
A30		-156	16	OPT	30		-24		
A31		-155	17	WHT	26		-8		
A32		-152	16	OPT	30		-42		
A33		-151	17	WHT	26		-40		
A34		-150	17	WHT	26		-38		
A35		-149	16	OPT	30		-30		
A36	SEE NOTE 10	-146	16	OPT	30		-50		SEE NOTE 10
A37		-145					-55		
A38		-144					-49		
A39		-143					-29		
A40		-140					-54		
A41		-139					-53		
A42		-138					-41		
A43		-137					-17		
A44		-134	16	OPT	30		J5-60		
A45		-133	17	WHT	26		J4-43		
A46		-132					J4-6		
A47		-131					J6-84		
A48		-130					J4-24		
A49		-129					J4-39		
A50		-128					J4-17		
A51		-127					J6-83		
A52		-126					J4-50		
A53		-125					J4-40		
A54		-124					J4-36		
A55		-123					J6-78		
A56		-122					J4-30		
A57		-121					J4-29		
A58		-120					J4-18		
A59		-119					J6-70		
A60		-118					J4-34		
A61		-117					J4-38		
A62		-116					J4-21		
A63		-115					J6-76		
A64		-114					J4-55		
A65		-113					-41		
A66		-112					-42		
A67		-111					-83		
A68		-110					-53		
A69		-109					-44		
A70		-108					-49		
A71		-107					-70		
A72		J12-106	16	OPT	30	AR	J4-60		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A73		J12-105	16	OPT	30	AR	J4-56		
A74		-104					J4-22		
A75		-103					J3-76		
A76		-102					-17		
A77		-101	16	OPT	30		-24		
A78		-100	17	WHT	26		-18		
A79		-99	16	OPT	30		-70		
A80		-98	16	OPT	30		-40		
A81		-97	16	OPT	30		-36		
A82		-96	17	WHT	26		J3-6		
A83		-95	16	OPT	30		J2-84		
A84		-94	16	OPT	30		J3-22		
A85		-93	16	OPT	30		J3-30		
A86		-92	17	WHT	26		J3-8		
A87		-91	16	OPT	30		J2-83		
A88		-90	16	OPT	30		J3-39		
A89		-89	16	OPT	30		J3-43		
A90		-88	17	WHT	26		J3-38		
A91		-87	16	OPT	30		J1-78		
A92		-86					J3-56		
A93		-85					J3-42		
A94		-84					J3-34		
A95		-83					J1-74		
A96		-82					J3-50		
A97		-81	16	OPT	30		J3-55		
A98		-80	17	WHT	26		J3-60		
A99		-79	16	OPT	30		J1-70		
A100		-78					J3-41		
A101		-77					J3-29		
A102		-76					J3-14		
A103		-75					J3-49		
A104		-74					J6-79		
A105		-73					J3-76		
A106		-72					J3-53		
A107		-71	16	OPT	30		J2-10		
A108	SEE NOTE 10	-70	17	WHT	26		J2-8		SEE NOTE 10
A109		-69	16	OPT	30		J2-18		
A110		-68					J5-70		
A111		-67					J5-84		
A112		-66					J2-56		
A113		-65					J2-24		
A114		-64	16	OPT	30		J2-36		
A115		-63	17	WHT	26		J2-6		
A116		-62	16	OPT	30		J5-83		
A117		-61					J5-78		
A118		-60					J2-21		
A119		-59					J2-30		
A120		-58					J2-40		
A121		-57					J2-34		
A122		-56					J5-92		
A123		-55					J4-79		
A124		-54					J2-50		
A125		-53					J2-39		
A126		-52					J2-43		
A127		-51					J2-22		
A128		-50					J4-78		
A129		-48					J2-55		
A130		-47					J2-42		
A131		-46					J2-38		
A132		-45					J2-29		
A133		-44					J3-84		
A134		-43					J3-83		
A135		-42					J2-54		
A136		-41					J2-49		
A137		-40					J2-41		
A138		-39					J2-17		
A139		-38					J3-78		
A140		-37					J3-92		
A141		-36					J2-53		
A142		-35					J1-24		
A143		-34	16	OPT	30		J1-17		
A144		J12-33	17	WHT	26	AR	J1-6		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	SEE NOTE	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
A145		J12-32	16	OPT	30	AR	J2-78		
A146		-31					J2-70		
A147		-30					J1-53		
A148		-29					-36		
A149		-28					-21		
A150		-27					-22		
A151		-25					-84		
A152		-24					-29		
A153		-23					-39		
A154		-22					-34		
A155		-21					-30		
A156	SEE NOTE 10	-18					-55		SEE NOTE 10
A157		-17					-43		
A158		-16					-49		
A159		-15					J1-18		
A160		-13					J4-84		
A161		-12					J1-56		
A162		-11					-50		
A163		-10					-41		
A164		-9					-40		
A165		-7					-83		
A166		-6					-60		
A167		-5					-54		
A168		-4					-38		
A169		-3					-42		
A170		J12-1	16	OPT	30		J1-82		
A171		J12-183	17	WHT	26	AR	G1		SEE NOTE 13

2003885 A

2003885

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
INSTRUMENTATION LAB CONTRACT			
DRAWN BY DATE			
CHECKED BY DATE			
APPROVAL BY DATE			
NASA APPROVAL BY DATE			
CODE IDENT NO. 80230 J			
NASA DRAWING NO. 2003885			
SCALE NONE			
SHEET 3 OF 3			

2003885 A

2003885

2003949 -



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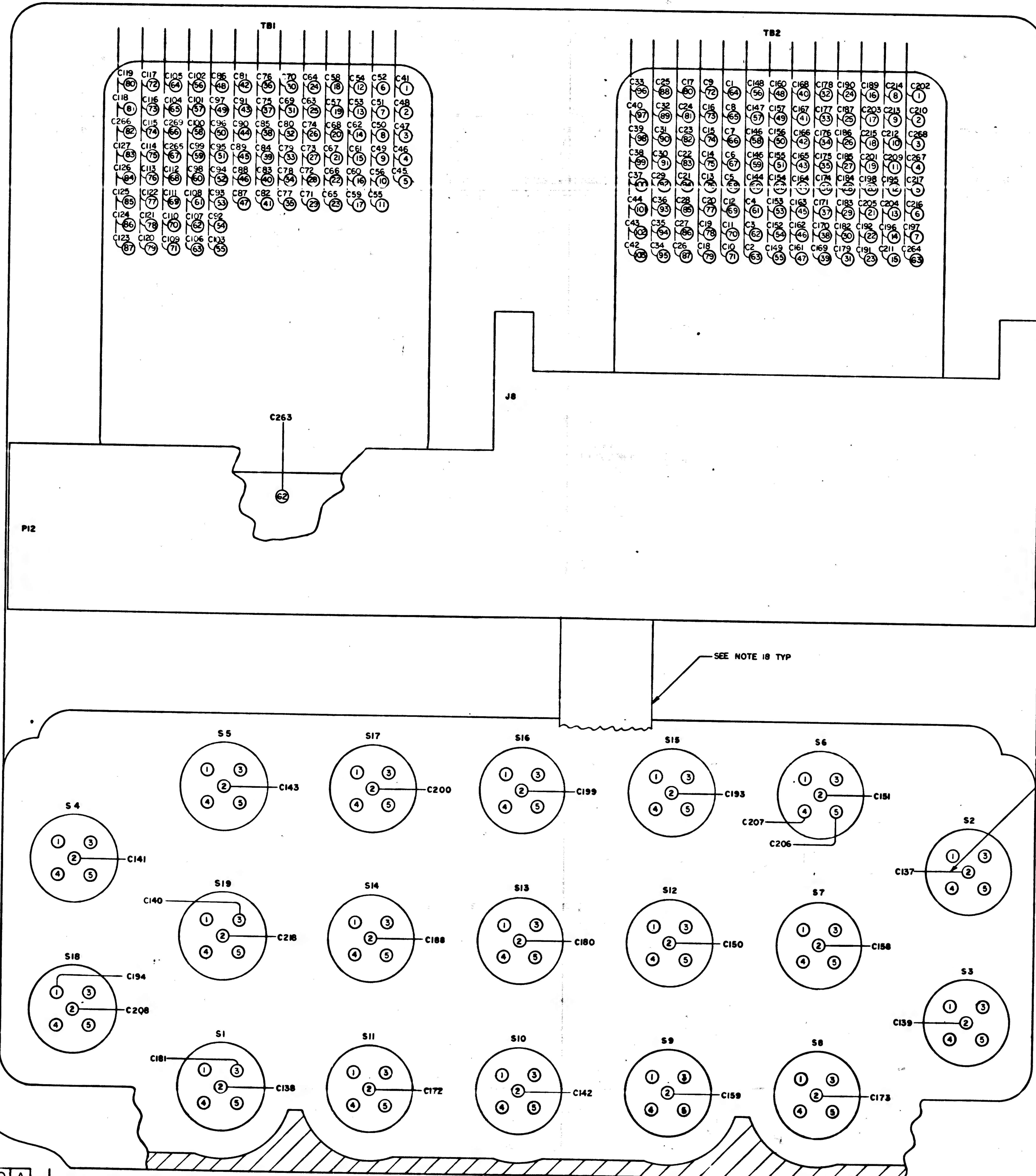
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DIMENSIONS SPECIFIED						SHEET		
DIMENSIONS ARE IN INCHES						INSTRUMENTATION LAB		
CAPACITOR VALUES ARE IN μ						CABLE NAME		
RESISTOR VALUES ARE IN OHMS								
TOLERANCES OR FRACTIONS						APPROVED BY [Signature] DATE [Date]		
SECONDS MINUTES						CHECKED BY [Signature] DATE [Date]		
DO NOT SCALE THIS DRAWING						APPROVED BY [Signature] DATE [Date]		
MATERIAL								
NEXT ASSY USED ON								
APPLICATION								
APPROVED BY [Signature]						DATE [Date]		
APPROVED BY [Signature]						DATE [Date]		

2003949 A

2003949 A

D
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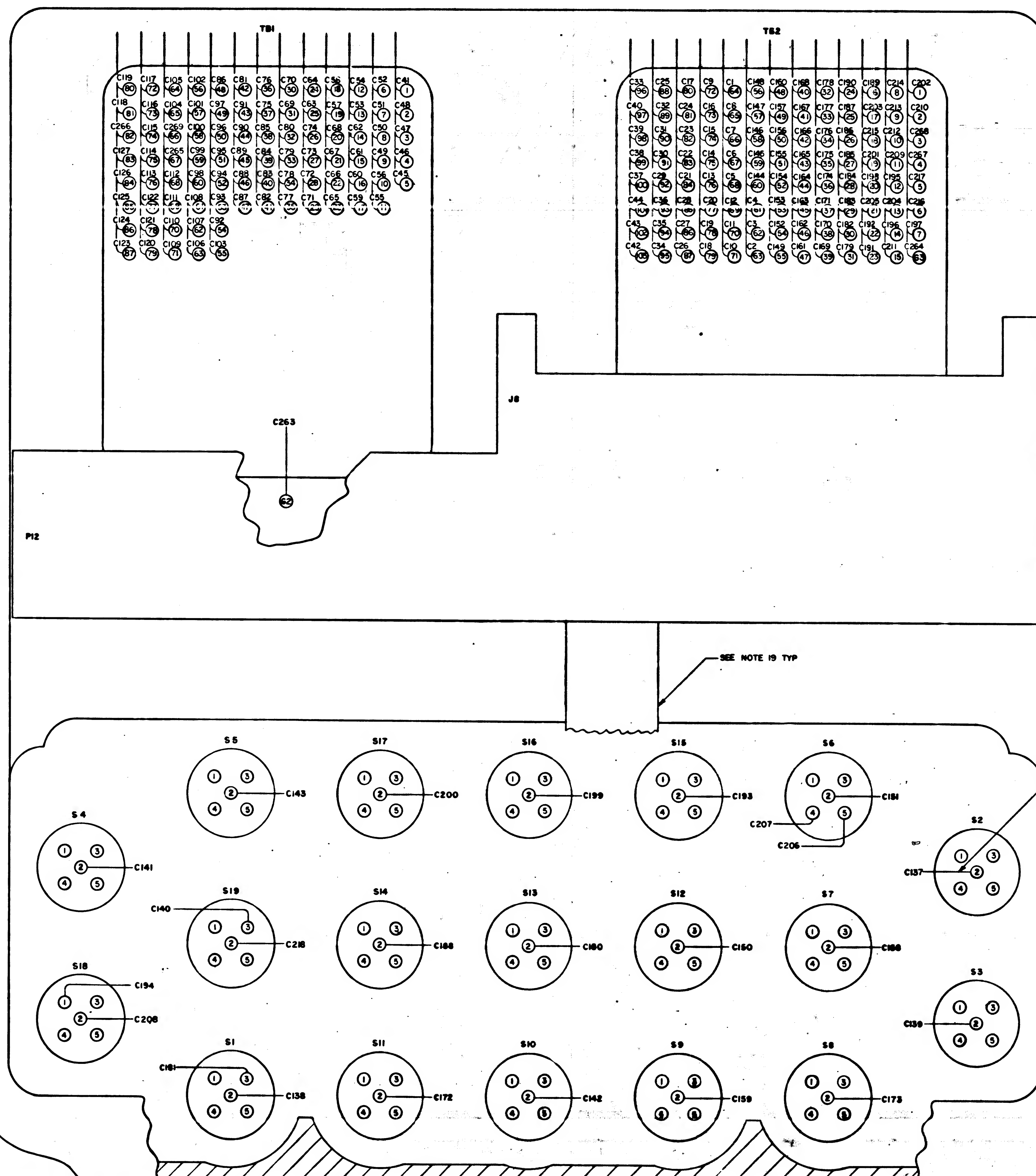
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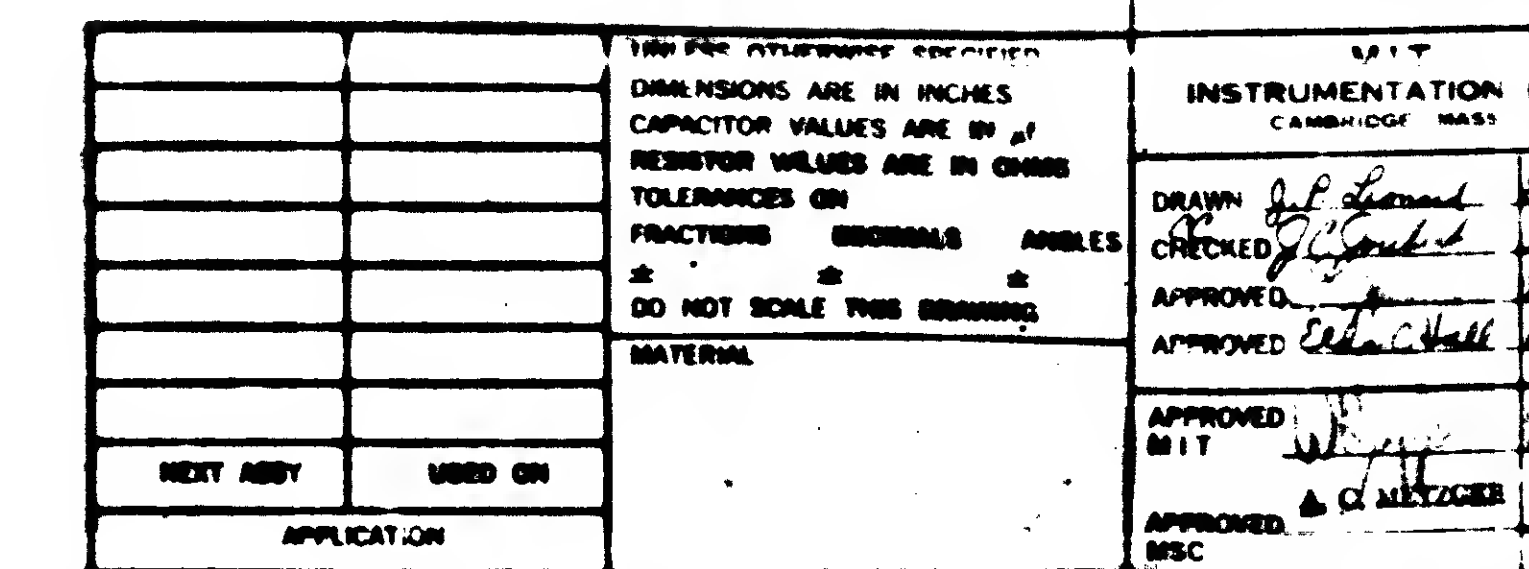
2003949 A F 1/2 SHEET 2

UNLESS OTHERWISE SPECIFIED		M I T	
DIMENSIONS ARE IN INCHES		INSTRUMENTATION	
CAPACITOR VALUES ARE IN μ F		CHASSIS MOUNT	
RESISTOR VALUES ARE IN OHMS		DRAWN <i>[Signature]</i>	
TOLERANCES ON FRACTIONS DECIMALS ANGLES		CHECKED <i>[Signature]</i>	
DO NOT SCALE THIS DRAWING		APPROVED <i>[Signature]</i>	
MATERIAL		APPROVED <i>[Signature]</i>	
NEXT REV		USED ON	
APPLICATION		REV	



SEE NOTE 9

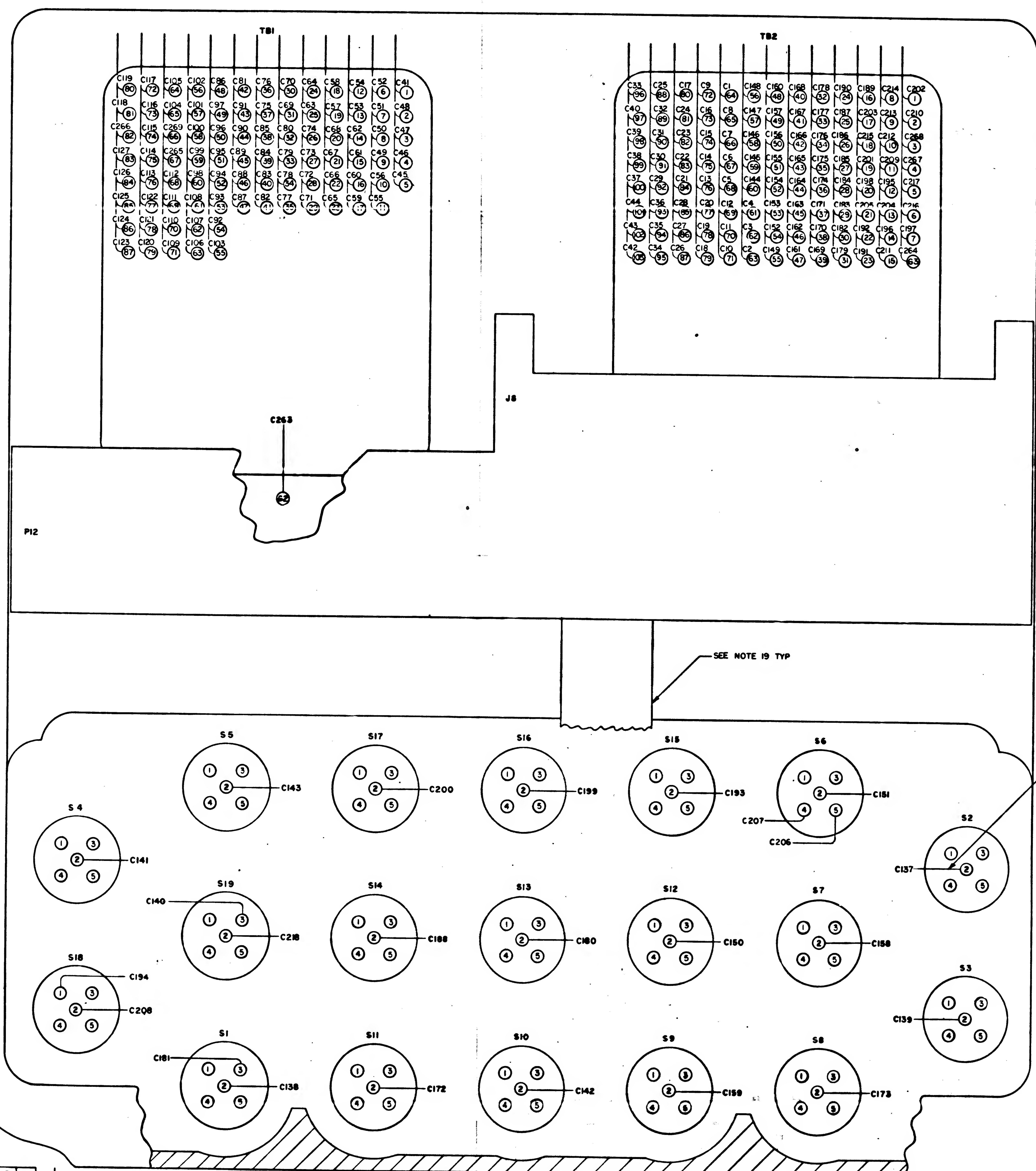
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON RESISTORS: 1% 5% 10% 20% NO RES SCALE THIS DRAWING DATE:		MIT INSTRUMENTATION CHECKED: [Signature] APPROVED: [Signature] DATE: [Date]
REV	DATE	BY
A		
B		



2003949	D
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SIH 2/3

F-172



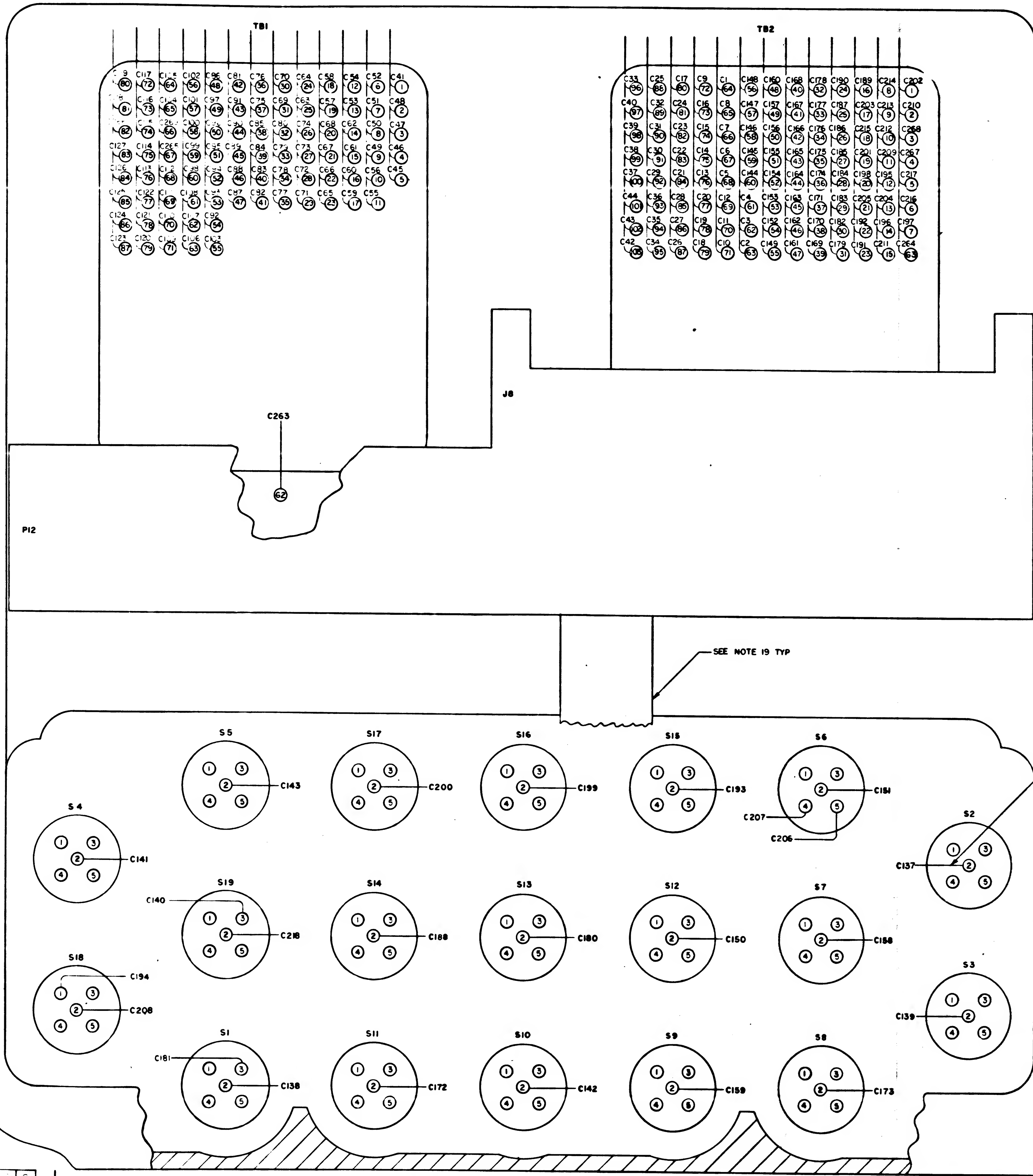
—SEE NOTE 19 TYPE

—SEE NOTE 5

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		REVISING			
LINE	ZONE	DESCRIPTION	DATE	TIME	APPROV
A		REVISED PER TORR 26856	1/1	1:40	
B		REVISED PER TORR 27913	1/1	2:40	
C		REVISED PER TORR 29478	1/1	2:40	
D		REVISED PER TORR 29705	1/1	2:40	
E		REVISED PER TORR 32280	1/1	2:40	
F		REVISED PER TORR 33340	1/1	2:40	
G		REVISED PER TORR 34432	1/1	2:40	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (APPROXIMATE VALUES ARE IN GRAY) RESISTOR VALUES ARE IN OHMS TOLERANCES OR FRACTIONS DECIMALS AMPLIFIER OR DO NOT SCALE THIS DRAWING.		M I T INSTRUMENTATION LAB <small>— 4000— 1000— 1000—</small>		LIST OF MATERIALS MANNED SPACECRAFT CENTER <small>PROJECT: 1000— 1000— 1000—</small>	
MATERIAL NEXT ASBY USED OR APPLICATION		DRAWN <i>W. J. Smith</i> <i>W. J. Smith</i> CHECKED <i>W. J. Smith</i> <i>W. J. Smith</i> APPROVED <i>W. J. Smith</i> <i>W. J. Smith</i> APPROVED <i>W. J. Smith</i> <i>W. J. Smith</i>		FRONT HOUSING ASSEMBLY AGC DSKY DRAWING NO 2003949	
		APPROVED BY <i>W. J. Smith</i> <i>W. J. Smith</i> & C. H. HARRIS		ICR IDENT NO 80230 J	
		DATE NONE		DRAWING NO 2003949	

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2003949	(5)
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E.2/2-2003.9.4.9 G

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	AR	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-127					TB2-68		
C6		-128					TB2-67		
C7		-129					TB2-66		
C8		-130					TB2-65		
C9		-123					TB2-72		
C10		-124					TB2-71		
C11		-125					TB2-70		
C12		-126					TB2-69		
C13		-119					TB2-75		
C14		-120					TB2-74		
C15		-121					TB2-73		
C16		-122					TB2-72		
C17		-115					TB2-80		
C18		-116					TB2-79		
C19		-117					TB2-78		
C20		-118					TB2-77		
C21		-111					TB2-84		
C22		-112					TB2-83		
C23		-113					TB2-82		
C24		-114					TB2-81		
C25		-107					TB2-88		
C26		-108					TB2-87		
C27		-109					TB2-86		
C28		-110					TB2-85		
C29		-103					TB2-92		
C30		-104					TB2-91		
C31		-105					TB2-90		
C32		-106					TB2-89		
C33		-99					TB2-96		
C34		-100					TB2-95		
C35		-101					TB2-94		
C36		-102					TB2-93		
C37		-95					TB2-100		
C38		-96					TB2-99		
C39		-97					TB2-98		
C40		-98					TB2-97		
C41		-91					TB1-1		
C42		-92					TB2-103		
C43		-93					TB2-102		
C44		-94					TB2-101		
C45		-87					TB1-5		
C46		-88					TB1-4		
C47		-89					TB1-3		
C48		-90					TB1-2		
C49		-83					TB1-9		
C50		-84					TB1-8		
C51		-85					TB1-7		
C52		-86					TB1-6		
C53		-79					TB1-13		
C54		-80					TB1-12		
C55		-81					TB1-11		
C56		-82					TB1-10		
C57		-73					TB1-19		
C58		-74					TB1-18		
C59		-75					TB1-17		
C60		-76					TB1-16		
C61		-77					TB1-15		
C62		-67					TB1-25		
C63		-68					TB1-24		
C64		-69					TB1-23		
C65		-70					TB1-22		
C66		-71					TB1-21		
C67		-72					TB1-20		
C68		-61					TB1-31		
C69		-62					TB1-30		
C70		-63					TB1-29		
C71		-64					TB1-28		
C72		-65					TB1-27		
C73		-66					TB1-26		
C74		-55					TB1-37		
C75		-56					TB1-36		
C76		-57					TB1-35		
C77		-58					TB1-34		
C78		-59					TB1-33		
C79		-60					TB1-32		
C80		-50					TB1-42		
C81		-51					TB1-41		
C82		-52					TB1-40		
C83		-53					TB1-39		
C84		-54					TB1-38		
C85		-43					TB1-48		
C86		-44					TB1-47		
C87		-45					TB1-46		
C88		P12-45	32	WHT	26	AR	TB1-46		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	AR	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-49					TB1-42		
C93		-38					TB1-53		
C94		-39					TB1-52		
C95		-40					TB1-51		
C96		-41					TB1-50		
C97		-42					TB1-49		
C98		-31					TB1-60		
C99		-32					TB1-59		
C100		-33					TB1-58		
C101		-34					TB1-57		
C102		-35					TB1-56		
C103		-36					TB1-55		
C104		-25					TB1-64		
C105		-27					TB1-63		
C106		-28					TB1-62		
C107		-29					TB1-61		
C108		-30					TB1-60		
C109		-21					TB1-71		
C110		-22					TB1-70		
C111		-23					TB1-69		
C112		-24					TB1-68		
C113		-13					TB1-75		
C114		-15					TB1-74		
C115		-16					TB1-73		
C116		-17					TB1-72		
C117		-18					TB1-71		
C118		-7					TB1-81		
C119		-9					TB1-80		
C120		-10					TB1-79		
C121		-11					TB1-78		
C122		-12					TB1-77		
C123		-3					TB1-87		
C124		-4					TB1-86		
C125		-5					TB1-85		
C126		-6					TB1-84		
C127		P12-6	32	WHT			TB1-83		
C128		S16-1	35	YEL			S17-3		
C129		S5-4	38	RED			S19-4		
C130		S5-5	40	ORN			S19-5		
C131		S19-4	38	RED			S1-4		
C132		S19-5	40	ORN			S1-5		
C133		S1-4	38	RED			S18-4		
C134		S1-5	40	ORN			S18-5		
C135		S18-4	38	RED			S4-4		
C136		S18-5	40	ORN			S4-5		
C137		J8-3	33	WHT			S2-2		
C138		-5					S3-2		
C139		-8					S19-3		
C140		-9					S4-2		
C141		-10					S10-2		
C142		-11					S5-2		
C143		J8-13	33				TB2-60		
C144		P12-135	32				TB2-59		
C145		-136					TB2-58		
C146		-137					TB2-57		
C147		-138					TB2-56		
C148		-139					TB2-55		
C149		P12-140	32				TB2-54		
C150		J8-14	33				S12-2		
C151		J8-15	33				S6-2		
C152		P12-141	32				TB2-53		
C153		-142					TB2-52		
C154		-143					TB2-51		
C155		-144					TB2-50		
C156		-145					TB2-49		
C157		P12-146	32				S7-2		
C158		J8-16	33				S9-2		
C159		J8-17	33				TB2-48		
C160		P12-147	32				-47		
C161		-148					-46		
C162		-149					-45		
C163		-150					-44		
C164		-151					-43		
C165		-152					-42		
C166		-153					-41		
C167		-154					-40		
C168		-155					-39		
C169		-156					-38		
C170		-157					TB2-37		
C171		P12-158	32				S11-2		
C172		J8-18	33				S8-2		
C173		J8-19	33				TB2-36		
C174		P12-159	32				TB2-35		
C175		P12-160	32				TB2-34		
C176		P12-161	32	WHT	26	AR	TB2-34		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26	AR	TB2-33		
C178		P12-163	32				TB2-32		
C179		P12-164	32				TB2-31		
C180		J8-20	33				S13-2		
C181		J8-21	33				TB2-30		
C182		P12-165	32				-29		
C183		-166					-28		
C184		-167					-27		
C185		-168					-26		
C186		-169					TB2-25		
C187		P12-170	32				TB2-24		
C188		J8-22	33				S14-2		
C189		P12-190	32				TB2-16		
C190		-174					-24		
C191		-175					-23		
C192		P12-176	32				TB2-22		
C193		J8-24	33				S15-2		
C194		J8-25	33				S18-1		
C195		P12-196	32				TB2-12		
C196		-192					-14		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	AR	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-135					TB2-60		
C6		-136					TB2-59		
C7		-137					TB2-58		
C8		-138					TB2-57		
C9		-139					TB2-56		
C10		-140					TB2-55		
C11		-141					TB2-54		
C12		-142					TB2-53		
C13		-143					TB2-52		
C14		-144					TB2-51		
C15		-145					TB2-50		
C16		-146					TB2-49		
C17		-147					TB2-48		
C18		-148					TB2-47		
C19		-149					TB2-46		
C20		-150					TB2-45		
C21		-151					TB2-44		
C22		-152					TB2-43		
C23		-153					TB2-42		
C24		-154					TB2-41		
C25		-155					TB2-40		
C26		-156					TB2-39		
C27		-157					TB2-38		
C28		-158					TB2-37		
C29		-159					TB2-36		
C30		-160					TB2-35		
C31		-161					TB2-34		
C32		-162					TB2-33		
C33		-163					TB2-32		
C34		-164					TB2-31		
C35		-165					TB2-30		
C36		-166					TB2-29		
C37		-167					TB2-28		
C38		-168					TB2-27		
C39		-169					TB2-26		
C40		-170					TB2-25		
C41		-171					TB2-24		
C42		-172					TB2-23		
C43		-173					TB2-22		
C44		-174					TB2-21		
C45		-175					TB2-20		
C46		-176					TB2-19		
C47		-177					TB2-18		
C48		-178					TB2-17		
C49		-179					TB2-16		
C50		-180					TB2-15		
C51		-181					TB2-14		
C52		-182					TB2-13		
C53		-183					TB2-12		
C54		-184					TB2-11		
C55		-185					TB2-10		
C56		-186					TB2-9		
C57		-187					TB2-8		
C58		-188					TB2-7		
C59		-189					TB2-6		
C60		-190					TB2-5		
C61		-191					TB2-4		
C62		-192					TB2-3		
C63		-193					TB2-2		
C64		-194					TB2-1		
C65		-195					TB2-0		
C66		-196					TB2-0		
C67		-197					TB2-0		
C68		-198					TB2-0		
C69		-199					TB2-0		
C70		-200					TB2-0		
C71		-201					TB2-0		
C72		-202					TB2-0		
C73		-203					TB2-0		
C74		-204					TB2-0		
C75		-205					TB2-0		
C76		-206					TB2-0		
C77		-207					TB2-0		
C78		-208					TB2-0		
C79		-209					TB2-0		
C80		-210					TB2-0		
C81		-211					TB2-0		
C82		-212					TB2-0		
C83		-213					TB2-0		
C84		-214					TB2-0		
C85		-215					TB2-0		
C86		-216					TB2-0		
C87		-217					TB2-0		
C88		-218					TB2-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	AR	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-49					TB1-42		
C93		-50					TB1-41		
C94		-51					TB1-40		
C95		-52					TB1-39		
C96		-53					TB1-38		
C97		-54					TB1-37		
C98		-55					TB1-36		
C99		-56					TB1-35		
C100		-57					TB1-34		
C101		-58					TB1-33		
C102		-59					TB1-32		
C103		-60					TB1-31		
C104		-61					TB1-30		
C105		-62					TB1-29		
C106		-63					TB1-28		
C107		-64					TB1-27		
C108		-65					TB1-26		
C109		-66					TB1-25		
C110		-67					TB1-24		
C111		-68					TB1-23		
C112		-69					TB1-22		
C113		-70					TB1-21		
C114		-71					TB1-20		
C115		-72					TB1-19		
C116		-73					TB1-18		
C117		-74					TB1-17		
C118		-75					TB1-16		
C119		-76					TB1-15		
C120		-77					TB1-14		
C121		-78					TB1-13		
C122		-79					TB1-12		
C123		-80					TB1-11		
C124		-81					TB1-10		
C125		-82					TB1-9		
C126		-83					TB1-8		
C127		-84					TB1-7		
C128		-85					TB1-6		
C129		-86					TB1-5		
C130		-87					TB1-4		
C131		-88					TB1-3		
C132		-89					TB1-2		
C133		-90					TB1-1		
C134		-91					TB1-0		
C135		-92					TB1-0		
C136		-93					TB1-0		
C137		-94					TB1-0		
C138		-95					TB1-0		
C139		-96					TB1-0		
C140		-97					TB1-0		
C141		-98					TB1-0		
C142		-99					TB1-0		
C143		-100					TB1-0		
C144		-101					TB1-0		
C145		-102					TB1-0		
C146		-103					TB1-0		
C147		-104					TB1-0		
C148		-105					TB1-0		
C149		-106					TB1-0		
C150		-107					TB1-0		
C151		-108					TB1-0		
C152		-109					TB1-0		
C153		-110					TB1-0		
C154		-111					TB1-0		
C155		-112					TB1-0		
C156		-113					TB1-0		
C157		-114					TB1-0		
C158		-115					TB1-0		
C159		-116					TB1-0		
C160		-117					TB1-0		
C161		-118					TB1-0		
C162		-119					TB1-0		
C163		-120					TB1-0		
C164		-121					TB1-0		
C165		-122					TB1-0		
C166		-123					TB1-0		
C167		-124					TB1-0		
C168		-125					TB1-0		
C169		-126					TB1-0		
C170		-127					TB1-0		
C171		-128					TB1-0		
C172		-129					TB1-0		
C173		-130					TB1-0		
C174		-131					TB1-0		
C175		-132					TB1-0		
C176		-133					TB1-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26	AR	TB2-33		
C178	SEE NOTE 6	P12-163	32				TB2-32	SEE NOTE 6	
C179		P12-164	32				TB2-31		
C180	SEE NOTE 5	J8-20	33				TB2-30	SEE NOTE 5	
C181		J8-21	33				TB2-29		
C182		P12-165	32				TB2-28		
C183		-166					TB2-27		
C184	SEE NOTE 6	-167					TB2-26	SEE NOTE 6	
C185		-168					TB2-25		
C186		-169					TB2-24		
C187		P12-170	32				TB2-23		
C188	SEE NOTE 5	J8-22	33				TB2-22	SEE NOTE 5	
C189		P12-190	32				TB2-21		
C190	SEE NOTE 6	-174					TB2-20	SEE NOTE 6	
C191		-175					TB2-19		
C192		P12-176	32				TB2-18		
C193	SEE NOTE 5	J8-24	33				TB2-17	SEE NOTE 5	
C194		J8-25	33				TB2-16		
C195		P12-196	32				TB2-15		
C196	SEE NOTE 6	-192					TB2-14	SEE NOTE 6	
C197		-193					TB2-13		
C198	SEE NOTE 5	P12-182	32				TB2-12	SEE NOTE 5	
C199	SEE NOTE 5	J8-26	33				TB2-11	SEE NOTE 5	
C200		J8-27	33				TB2-10		
C201		P12-185	32				TB2-9		
C202	SEE NOTE 6	-210					TB2-8	SEE NOTE 6	
C203		-187					TB2-7		
C204		-196					TB2-6		
C205	SEE NOTE 8	-181	32	WHT			TB2-5	SEE NOTE 8	
C206		-183	40	ORN			TB2-4		
C207		P12-194	36	RED			TB2-3		
C208		J8-30	33	WHT			TB2-2		
C209		P12-197	32	WHT			TB2-1		
C210		-209					TB2-0		
C211		-191					TB2-0		
C212	SEE NOTE 6	-201					TB2-0	SEE NOTE 6	
C213		-202					TB2-0		
C214		-203					TB2-0		
C215		-186					TB2-0		
C216		-207					TB2-0		
C217		-208	32	WHT			TB2-0		
C218		P12-179	33	WHT			TB2-0		
C219		S1-1	35	YEL			TB2-0		
C220		S2-1	38	RED			TB2-0		
C221		S3-1	40	ORN			TB2-0		
C222		S4-1	40	ORN			TB2-0		
C223		S5-1	40	ORN			TB2-0		
C224		S6-1	40	ORN			TB2-0		
C225		S7-1	40	ORN			TB2-0		
C226		S8-1	40	ORN			TB2-0		
C227		S9-1	40	ORN			TB2-0		
C228		S10-1	40	ORN			TB2-0		
C229		S11-1	40	ORN			TB2-0		
C230		S12-1	40	ORN			TB2-0		
C231		S13-1	40	ORN			TB2-0		
C232		S14-1	40	ORN			TB2-0		
C233		S15-1	40	ORN			TB2-0		
C234	SEE NOTE 5	S17-4	38	RED			TB2-0	SEE NOTE 5	
C235		S17-5	40	ORN			TB2-0		
C236		S6-4	38	RED			TB2-0		
C237		S6-5	40	ORN			TB2-0		
C238		S2-4	38	RED			TB2-0		
C239		S2-5	40	ORN			TB2-0		
C240		S7-4	38	RED			TB2-0		
C241		S7-5	40	ORN			TB2-0		
C242		S3-4	38	RED			TB2-0		
C243		S3-5	40	ORN			TB2-0		
C244		S8-4	38	RED			TB2-0		
C245		S8-5	40	ORN			TB2-0		
C246		S9-4	38	RED			TB2-0		
C247		S9-5	40	ORN			TB2-0		
C248		S12-4	38	RED			TB2-0		
C249		S12-5	40	ORN			TB2-0		
C250		S15-4	38	RED			TB2-0		
C251		S5-5	40	ORN			TB2-0		
C252		S6-4	38	RED			TB2-0		
C253		S16-5	40	ORN			TB2-0		
C254		S13-4	38	RED			TB2-0		
C255		S13-5	40	ORN			TB2-0		
C256		S10-4	38	RED			TB2-0		
C257		S10-5	40	ORN			TB2-0		
C258		S11-4	38	RED			TB2-0		
C259		S11-5	40	ORN			TB2-0		
C260		S14-4	38	RED			TB2-0		
C261		S14-5	40	ORN			TB2-0		
C262		S17-1	35	YEL			TB2-0		
C263	SEE NOTE 6	P12-184	32	WHT			TB2-0	SEE NOTE 6	
C264	SEE NOTE 6	P12-183	41				TB2-0	SEE NOTE 6	
C265	SEE NOTE 8	P12-20	32				TB2-0	SEE NOTE 8	
C266		P12-8					TB2-0		
C267		P12-173					TB2-0		
C268		P12-177					TB2-0		
C269		P12-19	32	WHT			TB2-0		

LEAD ELECTRICAL							
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO
C1		P12-131	32	WHT	26	AR	TB2-64
C2		-132					TB2-63
C3		-133					TB2-62
C4		-134					TB2-61
C5		-127					TB2-60
C6		-128					TB2-59
C7		-129					TB2-58
C8		-130					TB2-57
C9		-123					TB2-72
C10		-124					TB2-71
C11		-125					TB2-70
C12		-126					TB2-69
C13		-119					TB2-76
C14		-120					TB2-75
C15		-121					TB2-74
C16		-122					TB2-73
C17		-115					TB2-80
C18		-116					TB2-79
C19		-117					TB2-78
C20		-118					TB2-77
C21		-111					TB2-84
C22		-112					TB2-83
C23		-113					TB2-82
C24		-114					TB2-81
C25		-107					TB2-88
C26		-108					TB2-87
C27		-109					TB2-86
C28		-110					TB2-85
C29		-103					TB2-92
C30		-104					TB2-91
C31		-105					TB2-90
C32		-106					TB2-89
C33		-99					TB2-96
C34		-100					TB2-95
C35		-101					TB2-94
C36		-102					TB2-93
C37		-95					TB2-100
C38		-96					TB2-99
C39		-97					TB2-98
C40		-98					TB2-97
C41		-91					TB1-1
C42		-92					TB2-103
C43		-93					TB2-102
C44		-94					TB2-101
C45		-87					TB1-4
C46		-88					TB1-3
C47		-89					TB1-2
C48		-90					TB1-9
C49		-83					TB1-8
C50		-84					TB1-7
C51		-85					TB1-6
C52		-79					TB1-13
C53		-80					TB1-12
C54		-81					TB1-11
C55		-82					TB1-10
C56		-73					TB1-19
C57		-74					TB1-18
C58		-75					TB1-17
C59		-76					TB1-16
C60		-77					TB1-15
C61		-78					TB1-14
C62		-67					TB1-25
C63		-68					TB1-24
C64		-69					TB1-23
C65		-70					TB1-22
C66		-71					TB1-21
C67		-72					TB1-20
C68		-61					TB1-31
C69		-62					TB1-30
C70		-63					TB1-29
C71		-64					TB1-28
C72		-65					TB1-27
C73		-66					TB1-26
C74		-56					TB1-36
C75		-57					TB1-35
C76		-58					TB1-34
C77		-59					TB1-33
C78		-60					TB1-32
C79		-50					TB1-42
C80		-51					TB1-41
C81		-52					TB1-40
C82		-53					TB1-39
C83		-54					TB1-38
C84		-43					TB1-48
C85		-44					TB1-47
C86		-45					TB1-46

LEAD ELECTRICAL							
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO
C89		P12-46	32	WHT	26	AR	TB1-45
C90		-47					TB1-44
C91		-48					TB1-43
C92		-37					TB1-54
C93		-38					TB1-53
C94		-39					TB1-52
C95		-40					TB1-51
C96		-41					TB1-50
C97		-42					TB1-49
C98		-31					TB1-60
C99		-32					TB1-59
C100		-33					TB1-58
C101		-34					TB1-57
C102		-35					TB1-56
C103		-36					TB1-55
C104		-25					TB1-65
C105		-27					TB1-64
C106		-28					TB1-63
C107		-29					TB1-62
C108		-30					TB1-61
C109		-21					TB1-71
C110		-22					TB1-70
C111		-23					TB1-69
C112		-24					TB1-68
C113		-13					TB1-76
C114		-15					TB1-74
C115		-16					TB1-73
C116		-17					TB1-72
C117		-18					TB1-81
C118		-7					TB1-80
C119		-9					TB1-79
C120		-10					TB1-78
C121		-11					TB1-77
C122		-12					TB1-75
C123		-1					TB1-87
C124		-3					TB1-86
C125		-4					TB1-85
C126		-5					TB1-84
C127		P12-6	32	WHT	26	AR	TB1-83
C128		S16-1	35	YEL	26	AR	S17-3
C129		S5-4	38	RED	26	AR	S19-4
C130		S5-5	40	ORN	26	AR	S19-5
C131		S19-4	38	RED	26	AR	S1-4
C132		S19-5	40	ORN	26	AR	S1-5
C133		S1-4	38	RED	26	AR	S18-4
C134		S1-5	40	ORN	26	AR	S18-5
C135		S18-4	38	RED	26	AR	S4-4
C136		S18-5	40	ORN	26	AR	S4-5
C137		S4-4	38	RED	26	AR	S2-2
C138		S4-5	40	ORN	26	AR	S1-2
C139		S1-2	38	RED	26	AR	S3-2
C140		S3-2	38	RED	26	AR	S19-3
C141		S19-3	38	RED	26	AR	S4-2
C142		S4-2	38	RED	26	AR	S10-2
C143		S10-2	38	RED	26	AR	S5-2
C144		S5-2	38	RED	26	AR	TB2-60
C145		P12-135	32	WHT	26	AR	TB2-59
C146		-136					TB2-58
C147		-137					TB2-57
C148		-138					TB2-56
C149		P12-140	32	WHT	26	AR	TB2-55
C150		J8-14	33	WHT	26	AR	S12-2
C151		J8-15	33	WHT	26	AR	S6-2
C152		P12-141	32	WHT	26	AR	TB2-54
C153		-142					TB2-53
C154		-143					TB2-52
C155		-144					TB2-51
C156		-145					TB2-50
C157		P12-146	32	WHT	26	AR	TB2-49
C158		J8-16	33	WHT	26	AR	S7-2
C159		J8-17	33	WHT	26	AR	S9-2
C160		P12-147	32	WHT	26	AR	TB2-48
C161		-148					TB2-47
C162		-149					-46
C163		-150					-45
C164		-151					-44
C165		-152					-43
C166		-153					-42
C167		-154					-41
C168		-155					-40
C169		-156					-39
C170		-157					-38
C171		P12-158	32	WHT	26	AR	TB2-37
C172		J8-18	33	WHT	26	AR	S11-2
C173		J8-19	33	WHT	26	AR	S8-2
C174		P12-159	32	WHT	26	AR	TB2-36
C175		P12-160	32	WHT	26	AR	TB2-35
C176		P12-161	32	WHT	26	AR	TB2-34

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26		TB2-33	
C178	SEE NOTE 6	P12-163	32			AR	TB2-32	SEE NOTE 6
C179		P12-164	32				TB2-31	
C180	SEE NOTE 5	J8-20	33				S13-2	SEE NOTE 5
C181		J8-21	33				C1-4	
C182		P12-165	32				TB2-30	
C183		-166					-29	
C184	SEE NOTE 6	-167					-28	SEE NOTE 6
C185		-168					-27	
C186		-169					-26	
C187		P12-170	32				TB2-25	
C188	SEE NOTE 5	J8-22	33				S14-2	SEE NOTE 5
C189		P12-190	32				TB2-16	
C190		-174					-24	
C191	SEE NOTE 6	-175					-23	SEE NOTE 6
C192		P12-176	32				TB2-22	
C193	SEE NOTE 5	J8-24	33				S15-2	SEE NOTE 5
C194		J8-25	33				S18-1	
C195		P12-196	32				TB2-12	
C196	SEE NOTE 6	-192					-14	SEE NOTE 6
C197		-193					-13	
C198		P12-182	32				TB2-20	
C199	SEE NOTE 5	J8-26	33				S16-2	SEE NOTE 5
C200		J8-27	33				S17-2	SEE NOTE 5
C201		P12-185	32				TB2-19	
C202	SEE NOTE 6	-210					-1	SEE NOTE 6
C203		-187					-17	
C204		-188					-16	
C205		-189	32	WHT			TB2-21	
C206	SEE NOTE 8	-193	40	ORN			S6-5	
C207		P12-194	38	RED			S6-4	SEE NOTE 5
C208		J8-30	33	WHT			S18-2	
C209		P12-197	32	WHT			TB2-11	
C210		-209					-2	
C211		-191					-15	
C212	SEE NOTE 6	-201					-10	SEE NOTE 6
C213		-202					-9	
C214		-203					-8	
C215		-186					-18	
C216		-207					-6	
C217		-208	32	WHT			TB2-5	
C218		P12-179	33	WHT			S19-2	
C219		S1-1	35	YEL			S2-3	
C220		S2-1	40				S3-3	
C221		S3-1	40				S4-3	
C222		S4-1	40				S5-3	
C223		S6-1	40				S6-3	
C224		S6-1	40				S7-3	
C225		S7-1	40				S8-3	
C226		S8-1	40				S9-3	
C227		S9-1	40				S10-3	
C228		S10-1	40				S11-3	
C229		S11-1	40				S12-3	
C230		S12-1	40				S13-3	
C231		S13-1	40				S14-3	
C232		S14-1	40				S15-3	
C233		S15-1	35	YEL			S16-3	
C234	SEE NOTE 5	S17-4	38	RED			S5-4	
C235		S17-5	40	ORN			S5-5	
C236		S6-4	38	RED			S2-4	
C237		S6-5	40	ORN			S2-5	
C238		S2-4	38	RED			S7-4	
C239		S2-5	40	ORN			S7-5	
C240		S7-4	38	RED			S3-4	SEE NOTE 5
C241		S7-5	40	ORN			S3-5	
C242		S3-4	38	RED			S8-4	
C243		S3-5	40	ORN			S8-5	
C244		S8-4	38	RED			S9-4	
C245		S8-5	40	ORN			S9-5	
C246		S9-4	38	RED			S2-4	
C247		S9-5	40	ORN			S2-5	
C248		S12-4	38	RED			S15-4	
C249		S12-5	40	ORN			S15-5	
C250		S15-4	38	RED			S6-4	
C251		S15-5	40	ORN			S16-5	
C252		S16-4	38	RED			S13-4	
C253		S16-5	40	ORN			S13-5	
C254		S13-4	38	RED			S10-4	
C255		S13-5	40	ORN			S10-5	
C256		S10-4	38	RED			S11-4	
C257		S10-5	40	ORN			S11-5	
C258		S11-4	38	RED			S14-4	
C259		S11-5	40	ORN			S14-5	
C260		S14-4	38	RED			S7-4	
C261		S14-5	40	ORN			S7-5	
C262		S17-1	36	YEL			S18-3	
C263	SEE NOTE 6	P12-184	32	WHT			62	SEE NOTE 6
C264	SEE NOTE 6	P12-183	41				63	SEE NOTE 6
C265		P12-20	32				TB1-67	
C266	SEE NOTE 6	P12-8					TB1-82	SEE NOTE 6
C267		P12-9					TB2-4	
C268		P12-177					TB2-3	
C269		P12-19	38	WHT	26	AR	TB1-66	

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	AR	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-135					TB2-60		
C6		-136					TB2-59		
C7		-137					TB2-58		
C8		-138					TB2-57		
C9		-139					TB2-56		
C10		-140					TB2-55		
C11		-141					TB2-54		
C12		-142					TB2-53		
C13		-143					TB2-52		
C14		-144					TB2-51		
C15		-145					TB2-50		
C16		-146					TB2-49		
C17		-147					TB2-48		
C18		-148					TB2-47		
C19		-149					TB2-46		
C20		-150					TB2-45		
C21		-151					TB2-44		
C22		-152					TB2-43		
C23		-153					TB2-42		
C24		-154					TB2-41		
C25		-155					TB2-40		
C26		-156					TB2-39		
C27		-157					TB2-38		
C28		-158					TB2-37		
C29		-159					TB2-36		
C30		-160					TB2-35		
C31		-161					TB2-34		
C32		-162					TB2-33		
C33		-163					TB2-32		
C34		-164					TB2-31		
C35		-165					TB2-30		
C36		-166					TB2-29		
C37		-167					TB2-28		
C38		-168					TB2-27		
C39		-169					TB2-26		
C40		-170					TB2-25		
C41		-171					TB2-24		
C42		-172					TB2-23		
C43		-173					TB2-22		
C44		-174					TB2-21		
C45		-175					TB2-20		
C46		-176					TB2-19		
C47		-177					TB2-18		
C48		-178					TB2-17		
C49		-179					TB2-16		
C50		-180					TB2-15		
C51		-181					TB2-14		
C52		-182					TB2-13		
C53		-183					TB2-12		
C54		-184					TB2-11		
C55		-185					TB2-10		
C56		-186					TB2-9		
C57		-187					TB2-8		
C58		-188					TB2-7		
C59		-189					TB2-6		
C60		-190					TB2-5		
C61		-191					TB2-4		
C62		-192					TB2-3		
C63		-193					TB2-2		
C64		-194					TB2-1		
C65		-195					TB2-0		
C66		-196					TB2-0		
C67		-197					TB2-0		
C68		-198					TB2-0		
C69		-199					TB2-0		
C70		-200					TB2-0		
C71		-201					TB2-0		
C72		-202					TB2-0		
C73		-203					TB2-0		
C74		-204					TB2-0		
C75		-205					TB2-0		
C76		-206					TB2-0		
C77		-207					TB2-0		
C78		-208					TB2-0		
C79		-209					TB2-0		
C80		-210					TB2-0		
C81		-211					TB2-0		
C82		-212					TB2-0		
C83		-213					TB2-0		
C84		-214					TB2-0		
C85		-215					TB2-0		
C86		-216					TB2-0		
C87		-217					TB2-0		
C88		-218					TB2-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	AR	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-49					TB1-42		
C93		-50					TB1-41		
C94		-51					TB1-40		
C95		-52					TB1-39		
C96		-53					TB1-38		
C97		-54					TB1-37		
C98		-55					TB1-36		
C99		-56					TB1-35		
C100		-57					TB1-34		
C101		-58					TB1-33		
C102		-59					TB1-32		
C103		-60					TB1-31		
C104		-61					TB1-30		
C105		-62					TB1-29		
C106		-63					TB1-28		
C107		-64					TB1-27		
C108		-65					TB1-26		
C109		-66					TB1-25		
C110		-67					TB1-24		
C111		-68					TB1-23		
C112		-69					TB1-22		
C113		-70					TB1-21		
C114		-71					TB1-20		
C115		-72					TB1-19		
C116		-73					TB1-18		
C117		-74					TB1-17		
C118		-75					TB1-16		
C119		-76					TB1-15		
C120		-77					TB1-14		
C121		-78					TB1-13		
C122		-79					TB1-12		
C123		-80					TB1-11		
C124		-81					TB1-10		
C125		-82					TB1-9		
C126		-83					TB1-8		
C127		-84					TB1-7		
C128		-85					TB1-6		
C129		-86					TB1-5		
C130		-87					TB1-4		
C131		-88					TB1-3		
C132		-89					TB1-2		
C133		-90					TB1-1		
C134		-91					TB1-0		
C135		-92					TB1-0		
C136		-93					TB1-0		
C137		-94					TB1-0		
C138		-95					TB1-0		
C139		-96					TB1-0		
C140		-97					TB1-0		
C141		-98					TB1-0		
C142		-99					TB1-0		
C143		-100					TB1-0		
C144		-101					TB1-0		
C145		-102					TB1-0		
C146		-103					TB1-0		
C147		-104					TB1-0		
C148		-105					TB1-0		
C149		-106					TB1-0		
C150		-107					TB1-0		
C151		-108					TB1-0		
C152		-109					TB1-0		
C153		-110					TB1-0		
C154		-111					TB1-0		
C155		-112					TB1-0		
C156		-113					TB1-0		
C157		-114					TB1-0		
C158		-115					TB1-0		
C159		-116					TB1-0		
C160		-117					TB1-0		
C161		-118					TB1-0		
C162		-119					TB1-0		
C163		-120					TB1-0		
C164		-121					TB1-0		
C165		-122					TB1-0		
C166		-123					TB1-0		
C167		-124					TB1-0		
C168		-125					TB1-0		
C169		-126					TB1-0		
C170		-127					TB1-0		
C171		-128					TB1-0		
C172		-129					TB1-0		
C173		-130					TB1-0		
C174		-131					TB1-0		
C175		-132					TB1-0		
C176		-133					TB1-0		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26	AR	TB2-33		
C178	SEE NOTE 6	P12-163	32				TB2-32	SEE NOTE 6	
C179		P12-164	32				TB2-31		
C180	SEE NOTE 5	J8-20	33				TB2-30	SEE NOTE 5	
C181		J8-21	33				TB2-29		
C182		P12-165	32				TB2-28		
C183		-166					TB2-27		
C184	SEE NOTE 6	-167					TB2-26	SEE NOTE 6	
C185		-168					TB2-25		
C186		-169					TB2-24		
C187		P12-170	32				TB2-23		
C188	SEE NOTE 5	J8-22	33				TB2-22	SEE NOTE 5	
C189		P12-170	32				TB2-21		
C190		-174					TB2-20		
C191	SEE NOTE 6	-175					TB2-19	SEE NOTE 6	
C192		P12-176	32				TB2-18		
C193	SEE NOTE 5	J8-24	33				TB2-17	SEE NOTE 5	
C194		J8-25	33				TB2-16		
C195		P12-186	32				TB2-15		
C196	SEE NOTE 6	-182					TB2-14	SEE NOTE 6	
C197		-204					TB2-13		
C198		P12-182	32				TB2-12		
C199	SEE NOTE 5	J8-26	33				TB2-11	SEE NOTE 5	
C200		J8-27	33				TB2-10		
C201		P12-185	32				TB2-9		
C202	SEE NOTE 6	-210					TB2-8	SEE NOTE 6	
C203		-187					TB2-7		
C204		-195					TB2-6		
C205		-181	32	WHT			TB2-5		
C206	SEE NOTE 5	-193	40	ORN			TB2-4	SEE NOTE 5	
C207		P12-194	32	RED			TB2-3		
C208		J8-30	33	WHT			TB2-2		
C209		P12-197	32	WHT			TB2-1		
C210		-209					TB2-0		
C211		-191					TB2-0		
C212	SEE NOTE 6	-201					TB2-0	SEE NOTE 6	
C213		-202					TB2-0		
C214		-203					TB2-0		
C215		-186					TB2-0		
C216		-207					TB2-0		
C217		-206	32	WHT			TB2-0		
C218		P12-179	32	WHT			TB2-0		
C219		S1-1	35	YEL			TB2-0		
C220		S2-1					TB2-0		
C221		S3-1					TB2-0		
C222		S4-1					TB2-0		
C223		S6-1					TB2-0		
C224		S6-1					TB2-0		
C225		S7-1					TB2-0		
C226		S8-1					TB2-0		
C227		S9-1					TB2-0		
C228		S10-1					TB2-0		
C229		S11-1					TB2-0		
C230		S12-1					TB2-0		
C231		S13-1					TB2-0		
C232		S14-1					TB2-0		
C233	SEE NOTE 5	S15-1	35	YEL			TB2-0	SEE NOTE 5	
C234		S17-4	38	RED			TB2-0		
C235		S17-5	40	ORN			TB2-0		
C236		S6-4	38	RED			TB2-0		
C237		S6-5	40	ORN			TB2-0		
C238		S2-4	38	RED			TB2-0		
C239		S2-5	40	ORN			TB2-0		
C240		S7-4	38	RED			TB2-0		
C241		S7-5	40	ORN			TB2-0		
C242		S3-4	38	RED			TB2-0		
C243		S3-5	40	ORN			TB2-0		
C244		S8-4	38	RED			TB2-0		
C245		S8-5	40	ORN			TB2-0		
C246		S9-4	38	RED			TB2-0		
C247		S9-5	40	ORN			TB2-0		
C248		S12-4	38	RED			TB2-0		
C249		S12-5	40	ORN			TB2-0		
C250		S15-4	38	RED			TB2-0		
C251		S6-5	40	ORN			TB2-0		
C252		S6-4	38	RED			TB2-0		
C253		S16-5	40	ORN			TB2-0		
C254		S13-4	38	RED			TB2-0		
C255		S13-5	40	ORN			TB2-0		
C256		S10-4	38	RED			TB2-0		
C257		S10-5	40	ORN			TB2-0		
C258		S11-4	38	RED			TB2-0		
C259		S11-5	40	ORN			TB2-0		
C260		S14-4	38	RED			TB2-0		
C261		S14-5	40	ORN			TB2-0		
C262		S17-1	35	YEL			TB2-0		
C263	SEE NOTE 6	P12-184	32	WHT			TB2-0	SEE NOTE 6	
C264	SEE NOTE 6	P12-183	41				TB2-0	SEE NOTE 6	
C265		P12-20	32				TB2-0		
C266	SEE NOTE 6	P12-8					TB2-0	SEE NOTE 6	
C267		P12-173					TB2-0		
C268		P12-177					TB2-0		
C269		P12-19	32	WHT	26	AR	TB2-54		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C1		P12-131	32	WHT	26	A R	TB2-64		
C2		-132					TB2-63		
C3		-133					TB2-62		
C4		-134					TB2-61		
C5		-127					TB2-68		
C6		-128					TB2-67		
C7		-149					TB2-66		
C8		-130					TB2-65		
C9		-123					TB2-72		
C10		-124					TB2-71		
C11		-125					TB2-70		
C12		-126					TB2-69		
C13		-119					TB2-75		
C14		-120					TB2-74		
C15		-121					TB2-73		
C16		-122					TB2-80		
C17		-115					TB2-79		
C18		-116					TB2-78		
C19		-117					TB2-77		
C20		-118					TB2-84		
C21		-111					TB2-83		
C22		-112					TB2-82		
C23		-113					TB2-81		
C24		-114					TB2-88		
C25		-107					TB2-87		
C26		-108					TB2-86		
C27		-109					TB2-85		
C28		-110					TB2-92		
C29		-103					TB2-91		
C30		-104					TB2-90		
C31		-105					TB2-89		
C32		-106					TB2-96		
C33		-99					TB2-95		
C34		-102					TB2-94		
C35		-101					TB2-93		
C36		-95					TB2-99		
C37		-96					TB2-98		
C38		-97					TB2-97		
C39		-98					TB2-102		
C40		-91					TB2-101		
C41		-92					TB2-100		
C42		-93					TB2-99		
C43		-94					TB2-98		
C44		-87					TB2-97		
C45		-88					TB2-96		
C46		-89					TB2-95		
C47		-90					TB2-94		
C48		-83					TB2-93		
C49		-84					TB2-92		
C50		-85					TB2-91		
C51		-86					TB2-90		
C52		-79					TB2-89		
C53		-80					TB2-88		
C54		-81					TB2-87		
C55		-82					TB2-86		
C56		-73					TB2-85		
C57		-74					TB2-84		
C58		-75					TB2-83		
C59		-76					TB2-82		
C60		-77					TB2-81		
C61		-78					TB2-80		
C62		-67					TB2-79		
C63		-68					TB2-78		
C64		-69					TB2-77		
C65		-70					TB2-76		
C66		-71					TB2-75		
C67		-72					TB2-74		
C68		-61					TB2-73		
C69		-62					TB2-72		
C70		-63					TB2-71		
C71		-64					TB2-70		
C72		-65					TB2-69		
C73		-66					TB2-68		
C74		-55					TB2-67		
C75		-56					TB2-66		
C76		-57					TB2-65		
C77		-58					TB2-64		
C78		-59					TB2-63		
C79		-60					TB2-62		
C80		-50					TB2-61		
C81		-51					TB2-60		
C82		-52					TB2-59		
C83		-53					TB2-58		
C84		-54					TB2-57		
C85		-44					TB2-56		
C86		-43					TB2-55		
C87		-44					TB2-54		
C88		P12-45	32	WHT	26	A R	TB1-46		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C89		P12-46	32	WHT	26	A R	TB1-45		
C90		-47					TB1-44		
C91		-48					TB1-43		
C92		-37					TB1-54		
C93		-38					TB1-53		
C94		-39					TB1-52		
C95		-40					TB1-51		
C96		-41					TB1-50		
C97		-42					TB1-49		
C98		-31					TB1-60		
C99		-32					TB1-59		
C100		-33					TB1-58		
C101		-34					TB1-57		
C102		-35					TB1-56		
C103		-36					TB1-55		
C104		-25					TB1-63		
C105		-27					TB1-64		
C106		-28					TB1-65		
C107		-29					TB1-66		
C108		-30					TB1-67		
C109		-21					TB1-68		
C110		-22					TB1-69		
C111		-23					TB1-70		
C112		-24					TB1-71		
C113		-13					TB1-72		
C114		-15					TB1-73		
C115		-16					TB1-74		
C116		-17					TB1-75		
C117		-18					TB1-76		
C118		-7					TB1-77		
C119		-9					TB1-78		
C120		-10					TB1-79		
C121		-11					TB1-80		
C122		-12					TB1-81		
C123		-1					TB1-82		
C124		-3					TB1-83		
C125		-4					TB1-84		
C126		-5					TB1-85		
C127		P12-6	32	WHT			TB1-86		
C128		S16-1	35	YEL			TB1-87		
C129		S16-4	38	RED			TB1-88		
C130		S15-4	40	ORN			TB1-89		
C131		S15-4	38	RED			TB1-90		
C132		S15-5	40	ORN			TB1-91		
C133		S15-4	38	RED			TB1-92		
C134		S15-5	40	ORN			TB1-93		
C135		S15-4	38	RED			TB1-94		
C136		S15-5	40	ORN			TB1-95		
C137		S15-4	38	RED			TB1-96		
C138		S15-5	40	ORN			TB1-97		
C139		S15-4	38	RED			TB1-98		
C140		S15-5	40	ORN			TB1-99		
C141		S15-4	38	RED			TB1-100		
C142		S15-5	40	ORN			TB1-101		
C143		S15-4	38	RED			TB1-102		
C144		S15-5	40	ORN			TB1-103		
C145		S15-4	38	RED			TB1-104		
C146		S15-5	40	ORN			TB1-105		
C147		S15-4	38	RED			TB1-106		
C148		S15-5	40	ORN			TB1-107		
C149		S15-4	38	RED			TB1-108		
C150		S15-5	40	ORN			TB1-109		
C151		S15-4	38	RED			TB1-110		
C152		S15-5	40	ORN			TB1-111		
C153		S15-4	38	RED			TB1-112		
C154		S15-5	40	ORN			TB1-113		
C155		S15-4	38	RED			TB1-114		
C156		S15-5	40	ORN			TB1-115		
C157		S15-4	38	RED			TB1-116		
C158		S15-5	40	ORN			TB1-117		
C159		S15-4	38	RED			TB1-118		
C160		S15-5	40	ORN			TB1-119		
C161		S15-4	38	RED			TB1-120		
C162		S15-5	40	ORN			TB1-121		
C163		S15-4	38	RED			TB1-122		
C164		S15-5	40	ORN			TB1-123		
C165		S15-4	38	RED			TB1-124		
C166		S15-5	40	ORN			TB1-125		
C167		S15-4	38	RED			TB1-126		
C168		S15-5	40	ORN			TB1-127		
C169		S15-4	38	RED			TB1-128		
C170		S15-5	40	ORN			TB1-129		
C171		S15-4	38	RED			TB1-130		
C172		S15-5	40	ORN			TB1-131		
C173		S15-4	38	RED			TB1-132		
C174		S15-5	40	ORN			TB1-133		
C175		S15-4	38	RED			TB1-134		
C176		S15-5	40	ORN			TB1-135		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
C177		P12-162	32	WHT	26	AR	TB2-33		
C178	SEE NOTE 6	P12-163	32				TB2-32		
C179		P12-164	32				TB2-31		SEE NOTE 6
C180	SEE NOTE 5	J8-20	33				S13-2		
C181		J8-21	33				S13-3		SEE NOTE 6
C182		P12-165	32				TB2-30		
C183		J8-22	33				S14-2		
C184	SEE NOTE 6	J8-23	33				TB2-29		
C185		J8-24	33				S14-3		SEE NOTE 6
C186		J8-25	33				TB2-28		
C187		P12-170	32				TB2-27		
C188	SEE NOTE 5	J8-22	33				S14-2		SEE NOTE 6
C189		P12-190	32				TB2-16		
C190		J8-174	33				S14-2		
C191	SEE NOTE 6	J8-175	33				TB2-22		SEE NOTE 6
C192		P12-176	32				S15-2		
C193	SEE NOTE 5	J8-24	33				S16-1		
C194		J8-25	33				TB2-12		SEE NOTE 6
C195		P12-196	32				TB2-12		
C196	SEE NOTE 6	J8-192	33				S16-1		
C197		J8-204	33				TB2-20		SEE NOTE 6
C198		P12-182	32				S16-2		
C199	SEE NOTE 5	J8-26	33				TB2-19		SEE NOTE 6
C200		J8-27	33				S17-2		
C201		P12-185	32				TB2-19		
C202		J8-210	33				S17-2		
C203	SEE NOTE 6	J8-187	33				TB2-19		SEE NOTE 6
C204		J8-195	33				S17-2		
C205		J8-181	32	WHT			TB2-21		
C206	SEE NOTE 5	J8-193	40	ORN			S16-5		
C207		P12-194	38	RED			S16-4		SEE NOTE 6
C208		J8-230	33	WHT			S16-2		
C209		P12-187	32	WHT			TB2-11		
C210		J8-219	33				S16-2		
C211		J8-151	33				S16-2		
C212		J8-201	33				S16-2		
C213	SEE NOTE 6	J8-202	33				S16-2		SEE NOTE 6
C214		J8-203	33				S16-2		
C215		J8-186	33				S16-2		
C216		J8-207	32	WHT			S16-2		
C217		J8-208	33	WHT			TB2-5		
C218		P12-173	33	WHT			S16-2		
C219		S1-1	35	YEL			S2-3		
C220		S2-1	35				S3-3		
C221		S3-1	40				S4-3		
C222		S4-1	40				S5-3		
C223		S5-1	40				S6-3		
C224		S6-1	40				S7-3		
C225		S7-1	40				S8-3		
C226		S8-1	40				S9-3		
C227		S9-1	40				S10-3		
C228		S10-1	40				S11-3		
C229		S11-1	40				S12-3		
C230		S12-1	40				S13-3		
C231		S13-1	40				S14-3		
C232		S14-1	40				S15-3		
C233		S15-1	40				S16-3		
C234	SEE NOTE 5	S16-1	35	YEL			S16-3		
C235		S17-5	38	RED			S16-3		
C236		S17-5	40	ORN			S16-3		
C237		S16-4	38	RED			S16-3		
C238		S16-5	40	ORN			S16-3		
C239		S16-4	38	RED			S16-3		SEE NOTE 5
C240		S16-5	40	ORN			S16-3		
C241		S16-4	38	RED			S16-3		
C242		S16-5	40	ORN			S16-3		
C243		S16-4	38	RED			S16-3		
C244		S16-5	40	ORN			S16-3		
C245		S16-4	38	RED			S16-3		
C246		S16-5	40	ORN			S16-3		
C247		S16-4	38	RED			S16-3		
C248		S16-5	40	ORN			S16-3		
C249		S16-4	38	RED			S16-3		
C250		S16-5	40	ORN			S16-3		
C251		S16-4	38	RED			S16-3		
C252		S16-5	40	ORN			S16-3		
C253		S16-4	38	RED			S16-3		
C254		S16-5	40	ORN			S16-3		
C255		S16-4	38	RED			S16-3		
C256		S16-5	40	ORN			S16-3		
C257		S16-4	38	RED			S16-3		
C258		S16-5	40	ORN			S16-3		
C259		S16-4	38	RED			S16-3		
C260		S16-5	40	ORN			S16-3		
C261		S16-4	38	RED			S16-3		
C262		S16-5	40	ORN			S16-3		
C263	SEE NOTE 6	S16-4	38	RED			S16-3		
C264	SEE NOTE 6	S16-5	40	ORN			S16-3		
C265	SEE NOTE 6	S16-4	38	RED			S16-3		
C266		S16-5	40	ORN			S16-3		
C267		S16-4	38	RED			S16-3		
C268		S16-5	40	ORN			S16-3		
C269		S16-4	38	RED			S16-3		

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
A		REVISED PER TORR 26856		
B		REVISED PER TORR 27913		
C		REVISED PER TORR 28178		
D		REVISED PER TORR 29705		
E		REVISED PER TORR 32580		

LEAD ELECTRICAL						
FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
P12-131	32	WHT	26	AR	TB2-64	
-33					TE2-63	
-34					TE2-62	
-35					T-52-6	
-36					TB2-68	
-37					TB2-66	
-38					TB2-65	
-39					TB2-72	
-40					TB2-71	
-41					TB2-70	
-42					TB2-69	
-43					TB-75	
-44					TB2-74	
-45					TB2-73	
-46					TB2-80	
-47					TB2-79	
-48					TB2-78	
-49					TB2-77	
-50					TB2-84	
-51					TB2-83	
-52					TB2-82	
-53					TB2-81	
-54					TB2-88	
-55					TB2-87	
-56					TB2-86	
-57					TB2-92	
-58					TB2-91	
-59					TB2-90	
-60					TB2-89	
-61					TB2-98	
-62					TB2-94	
-63					TB2-93	
-64					TB2-100	
-65					TB2-99	
-66					TB2-98	
-67					TB2-97	
-68					TB2-103	
-69					TB2-102	
-70					TB2-101	SEE NOTE 6
-71					TB1-5	
-72					TB1-4	
-73					TB1-3	
-74					TB1-2	
-75					TB1-9	
-76					TB1-8	
-77					TB1-7	
-78					TB1-6	
-79					TB1-13	
-80					TB1-12	
-81					TB1-11	
-82					TB1-10	
-83					TB1-18	
-84					TB1-17	
-85					TB1-16	
-86					TB1-15	
-87					TB1-14	
-88					TB1-25	
-89					TB1-23	
-90					TB1-22	
-91					TB1-21	
-92					TB1-20	
-93					TB1-31	
-94					TB1-30	
-95					TB1-28	
-96					TB1-27	
-97					TB1-26	
-98					TB1-37	
-99					TB1-36	
-100					TB1-35	
-101					TB1-34	
-102					TB1-33	
-103					TB1-32	
-104					TB1-42	
-105					TB1-41	
-106					TB1-40	
-107					TB1-39	
-108					TB1-38	
-109					TB1-48	
-110					TB1-47	
-111					TB1-46	

LEAD ELECTRICAL						
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH
C89		P12-46	32	WHT	26	AR
C90		-47				TB1-45
C91		-48				TB1-44
C92		-37				TB1-54
C93		-38				TB1-53
C94		-39				TB1-52
C95		-40				TB1-51
C96		-41				TB1-50
C97		-42				TB1-49
C98		-31				TB1-60
C99		-32				TB1-59
C100		-33				TB1-58
C101		-34				TB1-57
C102		-35				TB1-56
C103		-36				TB1-57
C104		-25				TB1-65
C105		-27				TB1-64
C106	SEE NOTE 6	-28				TB1-63
C107		-29				TB1-62
C108		-30				TB1-61
C109		-21				TB1-71
C110		-22				TB1-70
C111		-23				TB1-69
C112		-24				TB1-68
C113		-13				TB1-76
C114		-15				TB1-75
C115		-16				TB1-74
C116		-17				TB1-73
C117		-18				TB1-72
C118		-7				TB1-81
C119		-9				TB1-80
C120		-10				TB1-79
C121		-11				TB1-78
C122		-12				TB1-77
C123		-1				TB1-87
C124		-3				TB1-86
C125		-4				TB1-85
C126		-5				TB1-84
C127		P12-6	32	WHT	26	AR
C128		S16-1	35	YEL		TB1-83
C129		S5-4	38	RED		TB1-82
C130		S5-5	40	ORN		TB1-81
C131		S19-4	38	RED		TB1-80
C132		S19-5	40	ORN		TB1-79
C133		S1-4	38	RED		TB1-78
C134		S1-5	40	ORN		TB1-77
C135		S18-4	38	RED		TB1-76
C136	SEE NOTE 5	S18-5	40	ORN		TB1-75
C137		J8-3	33	WHT		TB1-74
C138		-8				TB1-73
C139		-9				TB1-72
C140		-10				TB1-71
C141		-11				TB1-70
C142		-12				TB1-69
C143		J8-13	33			TB1-68
C144		P12-135	32			TB1-67
C145		-136				TB1-66
C146		-137				TB1-65
C147	SEE NOTE 6	-138				TB1-64
C148		-139				TB1-63
C149		P12-140	32			TB1-62
C150	SEE NOTE 5	J8-14	33			TB1-61
C151		J8-15	33			TB1-60
C152		P12-141	32			TB1-59
C153		-142				TB1-58
C154		-143				TB1-57
C155	SEE NOTE 6	-144				TB1-56
C156		-145				TB1-55
C157		P12-146	32			TB1-54
C158	SEE NOTE 5	J8-16	33			TB1-53
C159		J8-17	33			TB1-52
C160		P12-147	32			TB1-51
C161		-148				TB1-50
C162		-149				TB1-49
C163		-150				TB1-48
C164		-151				TB1-47
C165	SEE NOTE 6	-152				TB1-46
C166		-153				TB1-45
C167		-154				TB1-44
C168		-155				TB1-43
C169		-156				TB1-42
C170		-157				TB1-41
C171		P12-158	32			TB1-40
C172	SEE NOTE 5	J8-18	33			TB1-39
C173		J8-19	33			TB1-38
C174		P12-159	32			TB1-37
C175	SEE NOTE 6	P12-160	32			TB1-36
C176		P12-161	32	WHT	26	AR

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26		TB2-33	
C178	SEE NOTE 6	P12-163	32			AR	TB2-32	SEE NOTE 6
C179		P12-164	32				TB2-31	
C180	SEE NOTE 5	J8-20	33				S13-2	SEE NOTE 5
C181		J8-21	33				S13-3	
C182		P12-165	32				TB2-30	
C183		-166					-29	
C184	SEE NOTE 6	-167					-28	SEE NOTE 6
C185		-168					-27	
C186		-169					-26	
C187		P12-170	32				TB2-25	
C188	SEE NOTE 5	J8-22	33				TB2-24	SEE NOTE 5
C189		P12-190	32				TB2-16	
C190	SEE NOTE 6	-174					-24	SEE NOTE 6
C191		-175					-23	
C192		P12-176	32				TB2-22	
C193	SEE NOTE 5	J8-24	33				S15-2	SEE NOTE 5
C194		J8-25	33				S18-1	
C195		P12-196	32				TB2-12	
C196	SEE NOTE 6	-192					-14	SEE NOTE 6
C197		-204					-7	
C198		P12-182	32				TB2-20	
C199	SEE NOTE 5	J8-26	33				S16-2	SEE NOTE 5
C200		J8-27	33				S17-2	
C201		P12-185	32				TB2-19	
C202		-210					-17	
C203	SEE NOTE 6	-187					-1	SEE NOTE 6
C204		-195					-13	
C205		-181	32	WHT			TB2-21	
C206	SEE NOTE 5	-193	40	ORN			S6-5	SEE NOTE 5
C207		P12-194	38	RED			S6-4	
C208		J8-28	33	WHT			S18-2	
C209		P12-197	32	WHT			TB2-11	
C210		-209					-2	
C211		-191					-15	
C212	SEE NOTE 6	-201					-10	SEE NOTE 6
C213		-202					-9	
C214		-203					-8	
C215		-186					-18	
C216		-207					-6	
C217		-208	32	WHT			TB2-5	
C218		P12-179	33	WHT			S19-2	
C219		S1-1	35	YEL			S2-3	
C220		S2-1					S3-3	
C221		S3-1					S4-3	
C222		S4-1					S5-3	
C223		S5-1					S6-3	
C224		S6-1					S7-3	
C225		S7-1					S8-3	
C226		S8-1					S9-3	
C227		S9-1					S10-3	
C228		S10-1					S11-3	
C229		S11-1					S12-3	
C230		S12-1					S13-3	
C231		S13-1					S14-3	
C232		S14-1					S15-3	
C233	SEE NOTE 5	S15-1	35	YEL			S16-3	SEE NOTE 5
C234		S17-4	38	RED			S5-4	
C235		S17-5	40	ORN			S5-5	
C236		S6-4	38	RED			S2-4	
C237		S6-5	40	ORN			S2-5	
C238		S2-4	38	RED			S7-4	
C239		S2-5	40	ORN			S7-5	
C240		S7-4	38	RED			S3-4	
C241		S7-5	40	ORN			S3-5	
C242		S3-4	38	RED			S8-4	
C243		S3-5	40	ORN			S8-5	
C244		S8-4	38	RED			S9-4	
C245		S8-5	40	ORN			S9-5	
C246		S9-4	38	RED			S2-4	
C247		S9-5	40	ORN			S2-5	
C248		S12-4	38	RED			S15-4	
C249		S12-5	40	ORN			S15-5	
C250		S15-4	38	RED			S16-4	
C251		S15-5	40	ORN			S16-5	
C252		S16-4	38	RED			S13-4	
C253		S16-5	40	ORN			S13-5	
C254		S13-4	38	RED			S10-4	
C255		S13-5	40	ORN			S10-5	
C256		S10-4	38	RED			S11-4	
C257		S10-5	40	ORN			S11-5	
C258		S11-4	38	RED			S14-4	
C259		S11-5	40	ORN			S14-5	
C260		S14-4	38	RED			S17-4	
C261		S14-5	40	ORN			S17-5	
C262		S17-1	35	YEL			S18-3	
C263	SEE NOTE 6	P12-184	32	WHT			G2	SEE NOTE 6
C264	SEE NOTE 6	P12-183	41				G3	SEE NOTE 6
C265		P12-20	32				TB1-67	
C266	SEE NOTE 6	P12-8	32				TB1-82	SEE NOTE 6
C267		P12-173	32				TB2-4	
C268		P12-177	32				TB2-3	
C269		P12-19	32	WHT	26	AR	TB1-66	

2003949 G

A	REVISED PER TDRR 26856
B	REVISED PER TDRR 27913
C	REVISED PER TDRR 28178
D	REVISED PER TDRR 29705
E	REVISED PER TDRR 32580
F	REVISED PER TDRR 33940
G	REVISED PER TDRR 34492

COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C89		P12-46	32	WHT	26	AR	TB2-64	
C90		-47					TB2-63	
C91		-48					TB2-62	
C92		-49					TB2-61	
C93		-50					TB2-60	
C94		-51					TB2-59	
C95		-52					TB2-58	
C96		-53					TB2-57	
C97		-54					TB2-56	
C98		-55					TB2-55	
C99		-56					TB2-54	
C100		-57					TB2-53	
C101		-58					TB2-52	
C102		-59					TB2-51	
C103		-60					TB2-50	
C104		-61					TB2-49	
C105		-62					TB2-48	
C106		-63					TB2-47	
C107		-64					TB2-46	
C108		-65					TB2-45	
C109		-66					TB2-44	
C110		-67					TB2-43	
C111		-68					TB2-42	
C112		-69					TB2-41	
C113		-70					TB2-40	
C114		-71					TB2-39	
C115		-72					TB2-38	
C116		-73					TB2-37	
C117		-74					TB2-36	
C118		-75					TB2-35	
C119		-76					TB2-34	
C120		-77					TB2-33	
C121		-78					TB2-32	
C122		-79					TB2-31	
C123		-80					TB2-30	
C124		-81					TB2-29	
C125		-82					TB2-28	
C126		-83					TB2-27	
C127		-84					TB2-26	
C128		-85					TB2-25	
C129		-86					TB2-24	
C130		-87					TB2-23	
C131		-88					TB2-22	
C132		-89					TB2-21	
C133		-90					TB2-20	
C134		-91					TB2-19	
C135		-92					TB2-18	
C136		-93					TB2-17	
C137		-94					TB2-16	
C138		-95					TB2-15	
C139		-96					TB2-14	
C140		-97					TB2-13	
C141		-98					TB2-12	
C142		-99					TB2-11	
C143		-100					TB2-10	
C144		-101					TB2-9	
C145		-102					TB2-8	
C146		-103					TB2-7	
C147		-104					TB2-6	
C148		-105					TB2-5	
C149		-106					TB2-4	
C150		-107					TB2-3	
C151		-108					TB2-2	
C152		-109					TB2-1	
C153		-110					TB2-0	
C154		-111					TB2-0	
C155		-112					TB2-0	
C156		-113					TB2-0	
C157		-114					TB2-0	
C158		-115					TB2-0	
C159		-116					TB2-0	
C160		-117					TB2-0	
C161		-118					TB2-0	
C162		-119					TB2-0	
C163		-120					TB2-0	
C164		-121					TB2-0	
C165		-122					TB2-0	
C166		-123					TB2-0	
C167		-124					TB2-0	
C168		-125					TB2-0	
C169		-126					TB2-0	
C170		-127					TB2-0	
C171		-128					TB2-0	
C172		-129					TB2-0	
C173		-130					TB2-0	
C174		-131					TB2-0	
C175		-132					TB2-0	
C176		-133					TB2-0	

COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C89		P12-46	32	WHT	26	AR	TB1-45	
C90		-47					TB1-44	
C91		-48					TB1-43	
C92		-49					TB1-42	
C93		-50					TB1-41	
C94		-51					TB1-40	
C95		-52					TB1-39	
C96		-53					TB1-38	
C97		-54					TB1-37	
C98		-55					TB1-36	
C99		-56					TB1-35	
C100		-57					TB1-34	
C101		-58					TB1-33	
C102		-59					TB1-32	
C103		-60					TB1-31	
C104		-61					TB1-30	
C105		-62					TB1-29	
C106		-63					TB1-28	
C107		-64					TB1-27	
C108		-65					TB1-26	
C109		-66					TB1-25	
C110		-67					TB1-24	
C111		-68					TB1-23	
C112		-69					TB1-22	
C113		-70					TB1-21	
C114		-71					TB1-20	
C115		-72					TB1-19	
C116		-73					TB1-18	
C117		-74					TB1-17	
C118		-75					TB1-16	
C119		-76					TB1-15	
C120		-77					TB1-14	
C121		-78					TB1-13	
C122		-79					TB1-12	
C123		-80					TB1-11	
C124		-81					TB1-10	
C125		-82					TB1-9	
C126		-83					TB1-8	
C127		-84					TB1-7	
C128		-85					TB1-6	
C129		-86					TB1-5	
C130		-87					TB1-4	
C131		-88					TB1-3	
C132		-89					TB1-2	
C133		-90					TB1-1	
C134		-91					TB1-0	
C135		-92					TB1-0	
C136		-93					TB1-0	
C137		-94					TB1-0	
C138		-95					TB1-0	
C139		-96					TB1-0	
C140		-97					TB1-0	
C141		-98					TB1-0	
C142		-99					TB1-0	
C143		-100					TB1-0	
C144		-101					TB1-0	
C145		-102					TB1-0	
C146		-103					TB1-0	
C147		-104					TB1-0	
C148		-105					TB1-0	
C149		-106					TB1-0	
C150		-107					TB1-0	
C151		-108					TB1-0	
C152		-109					TB1-0	
C153		-110					TB1-0	
C154		-111					TB1-0	
C155		-112					TB1-0	
C156		-113					TB1-0	
C157		-114					TB1-0	
C158		-115					TB1-0	
C159		-116					TB1-0	
C160		-117					TB1-0	
C161		-118					TB1-0	
C162		-119					TB1-0	
C163		-120					TB1-0	
C164		-121					TB1-0	
C165		-122					TB1-0	
C166		-123					TB1-0	
C167		-124					TB1-0	
C168		-125					TB1-0	
C169		-126					TB1-0	
C170		-127					TB1-0	
C171		-128					TB1-0	
C172		-129					TB1-0	
C173		-130					TB1-0	
C174		-131					TB1-0	
C175		-132					TB1-0	
C176		-133					TB1-0	

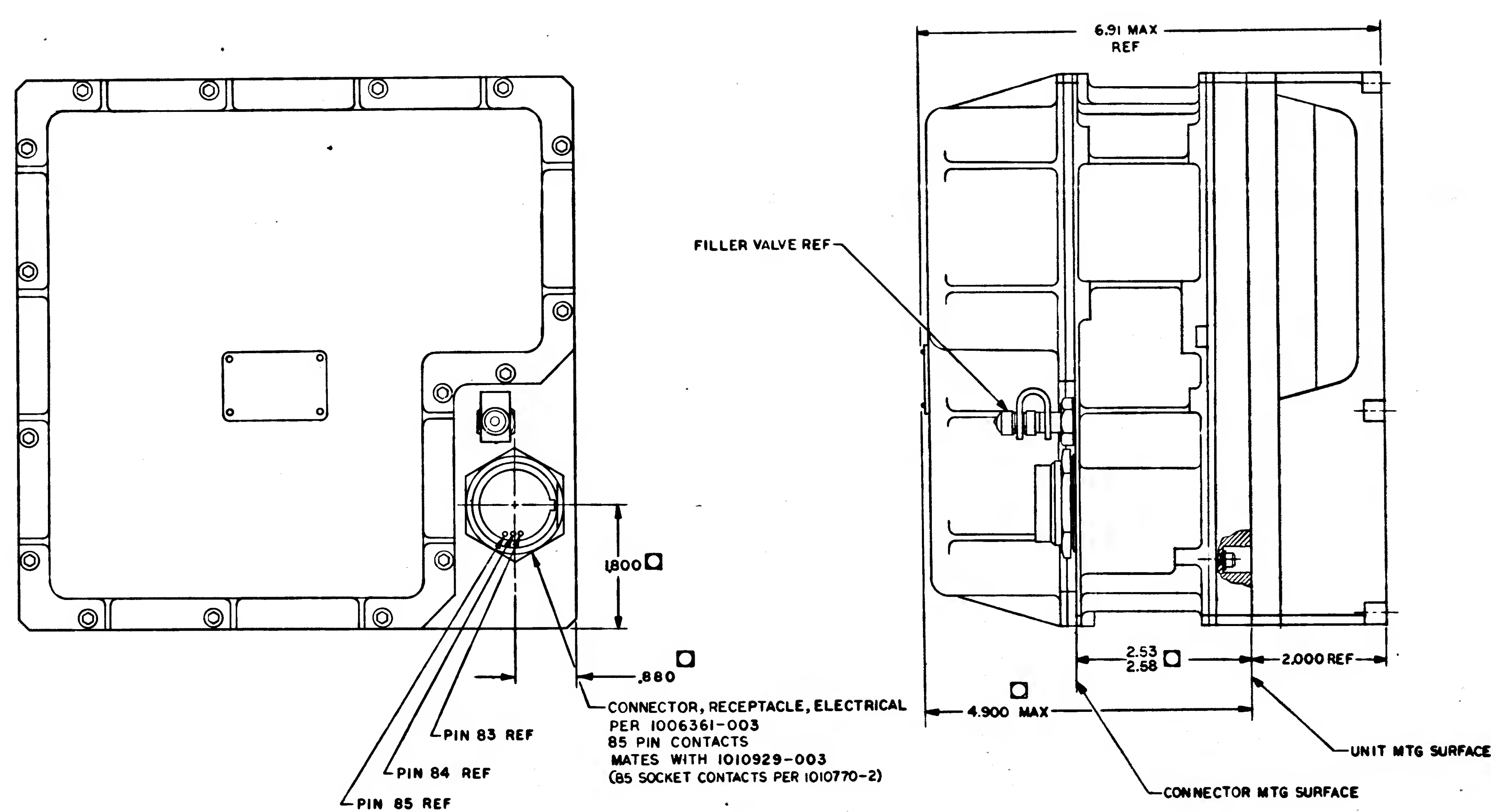
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COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
C177		P12-162	32	WHT	26		AR	TB2-33
C178	SEE NOTE 6	P12-163	32					TB2-32
C179		P12-164	32					TB2-31
C180	SEE NOTE 5	J8-20	33					S12-4
C181		J8-21	33					S1-3
C182		P12-165	32					TB2-30
C183		-166						-29
C184	SEE NOTE 6	-167						-28
C185		-168						-27
C186		-169						-26
C187		P12-170	32					TB2-25
C188	SEE NOTE 5	J8-22	33					S14-2
C189		P12-180	32					TB2-16
C190		-174						-24
C191	SEE NOTE 6	-175						-23
C192		P12-176	32					TB2-22
C193	SEE NOTE 5	J8-24	33					S15-2
C194		J8-25	33					S18-1
C195		P12-196	32					TB2-12
C196	SEE NOTE 6	-192						-14
C197		-193						-13
C198		P12-182	32					TB2-20
C199	SEE NOTE 5	J8-26	33					S16-2
C200		J8-27	33					S17-2
C201		P12-185	32					TB2-19
C202		-210						-1
C203	SEE NOTE 6	-187						-17
C204		-195						-13
C205		-181	32	WHT				TB2-21
C206	SEE NOTE 5	-193	40	ORN				S6-5
C207		P12-194	38	RED				S12-2
C208		J8-30	33	WHT				S18-2
C209		P12-197	32	WHT				TB2-11
C210		-209						-2
C211		-191						-15
C212		-201						-10
C213	SEE NOTE 6	-202						-9
C214		-203						-8
C215		-186						-18
C216		-207	32	WHT				-6
C217		-208	33	WHT				TB2-5
C218		P12-179	33	WHT				S19-2
C219		S1-1	35	YEL				S2-3
C220		S2-1						S3-3
C221		S3-1						S4-3
C222		S4-1						S5-3
C223		S5-1						S6-3
C224		S6-1						S7-3
C225		S7-1						S8-3
C226		S8-1						S9-3
C227		S9-1						S10-3
C228		S10-1						S11-3
C229		S11-1						S12-3
C230		S12-1						S13-3
C231		S13-1						S14-3
C232		S14-1						S15-3
C233	SEE NOTE 5	S15-1	35	YEL				S16-3
C234		S17-4	38	RED				S19-2
C235		S17-5	40	ORN				S5-5
C236		S6-4	38	RED				S2-4
C237		S6-5	40	ORN				S2-5
C238		S2-4	38	RED				S7-4
C239		S2-5	40	ORN				S7-5
C240		S7-4	38	RED				S3-4
C241		S7-5	40	ORN				S3-5
C242		S3-4	38	RED				S8-4
C243		S3-5	40	ORN				S8-5
C244		S8-4	38	RED				S9-4
C245		S8-5	40	ORN				S9-5
C246		S9-4	38	RED				S2-4
C247		S9-5	40	ORN				S2-5
C248		S12-4	38	RED				S15-4
C249		S12-5	40	ORN				S15-5
C250		S16-4	38	RED				S16-4
C251		S16-5	40	ORN				S16-5
C252		S16-4	38	RED				S14-5
C253		S16-5	40	ORN				S15-5
C254		S13-4	38	RED				S10-4
C255		S13-5	40	GRN				S10-5
C256		S10-4	38	RED				S11-4
C257		S10-5	40	ORN				S11-5
C258		S11-4	38	RED				S14-4
C259		S11-5	40	ORN				S14-5
C260		S14-4	38	RED				S17-4
C261		S14-5	40	ORN				S17-5
C262		S17-1	35	YEL				S18-3
C263	SEE NOTE 6	P12-184	32	WHT				62
C264	SEE NOTE 6	P12-200	32					TB1-67
C265		P12-183	41					TB1-82
C266	SEE NOTE 6	P12-8	6					TB2-4
C267		P12-173	3					TB2-3
C268		P12-177						TB2-3
C269		P12-19	32	WHT	26	AR		TB1-66

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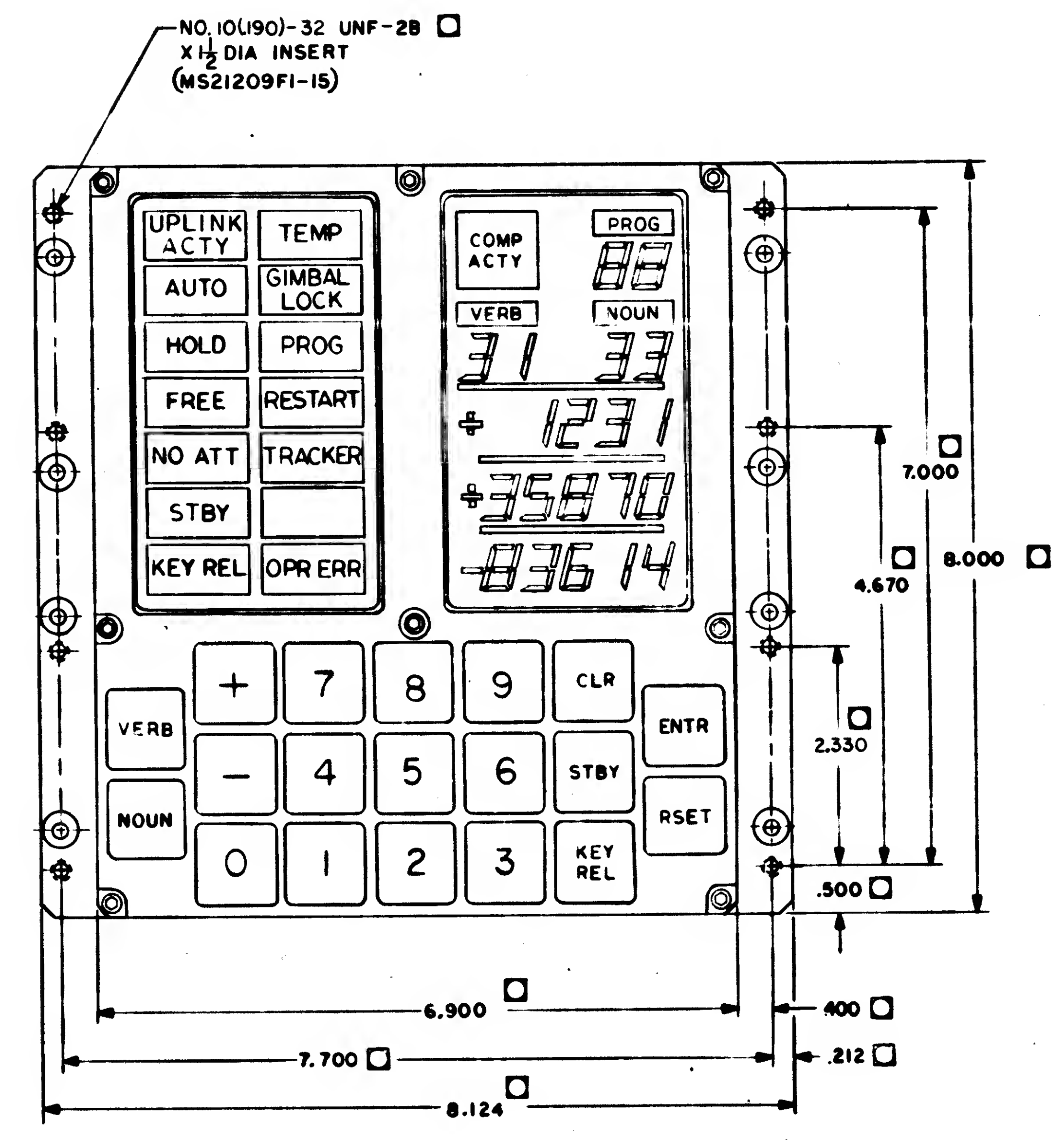
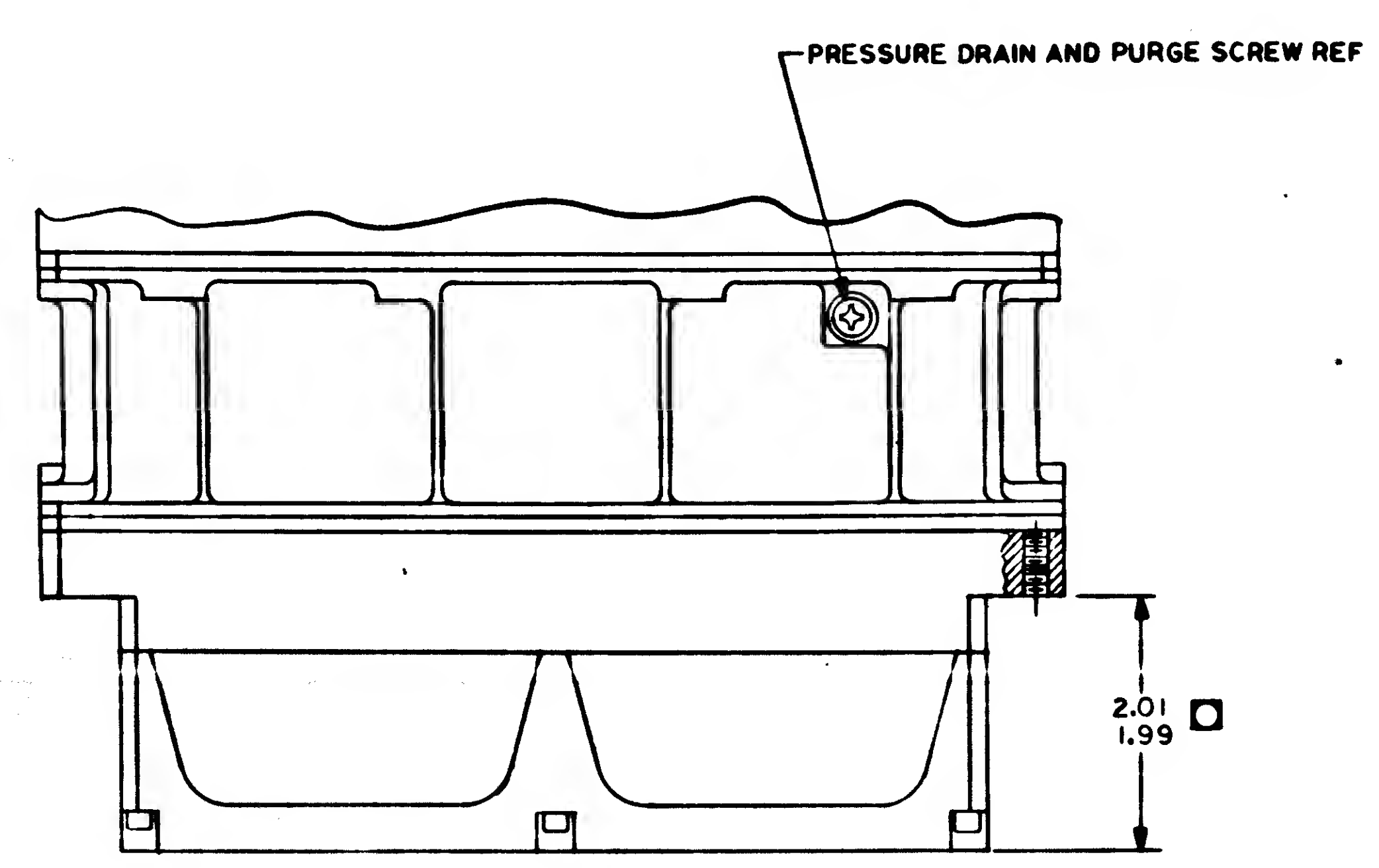
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REVISION
DATE

D
C
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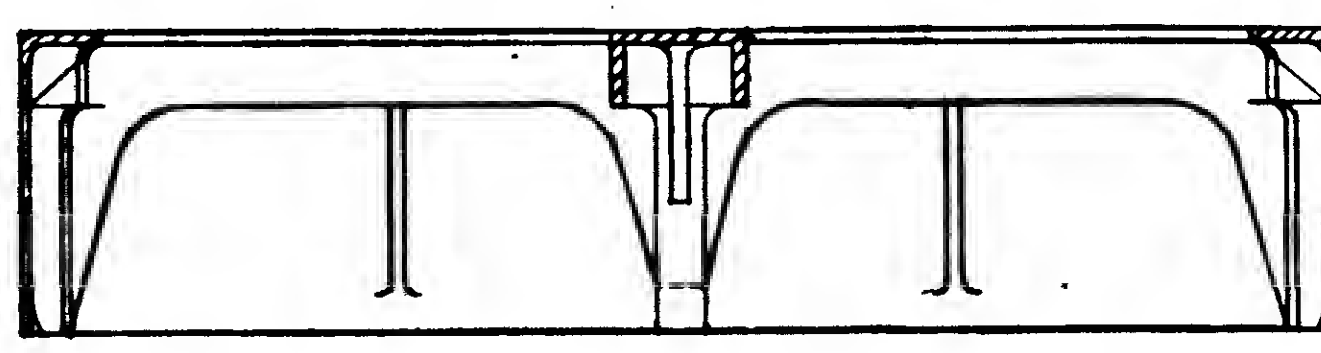


- NOTES
1. DIMENSIONS CONTROLLED BY ICD MHOI-01305-116
 2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 3. WEIGHT *See*
 4. \odot INDICATES CENTER OF GRAVITY *See*

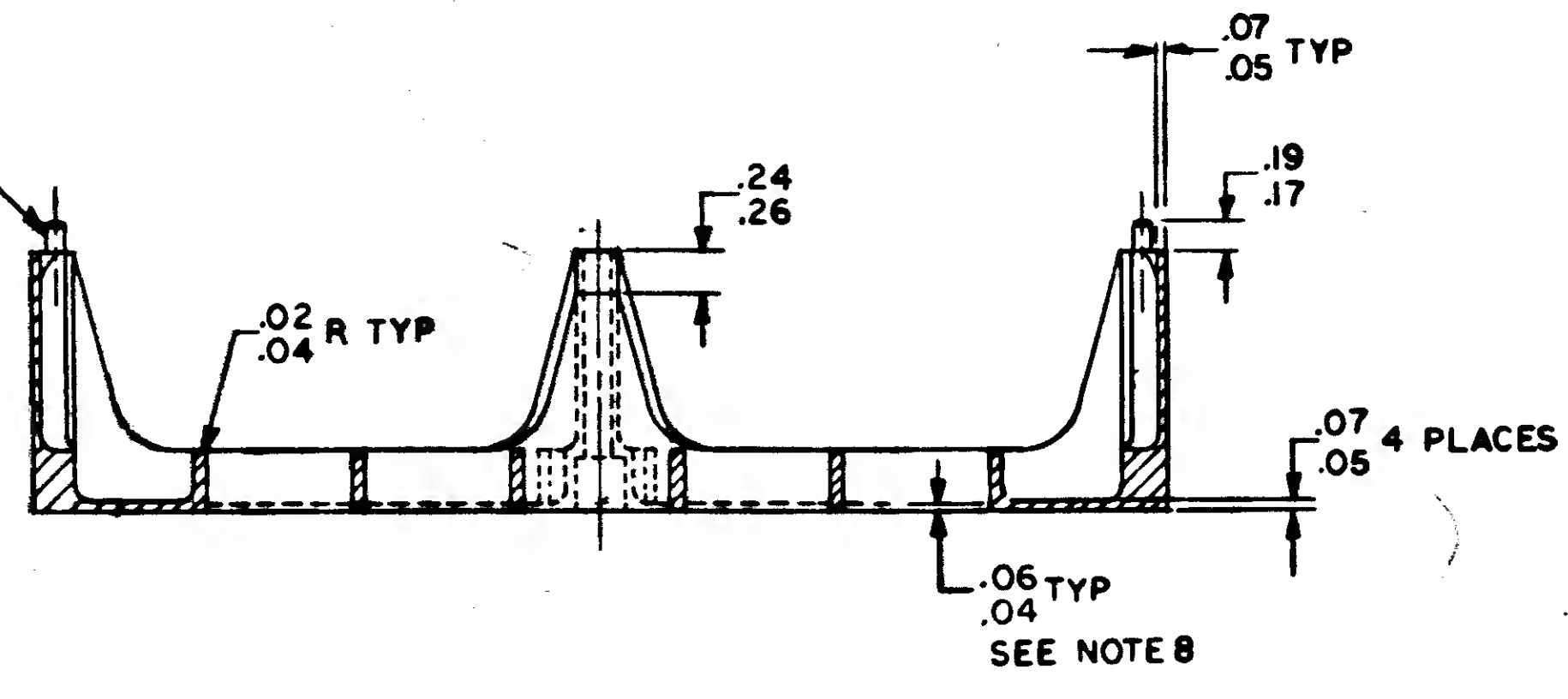
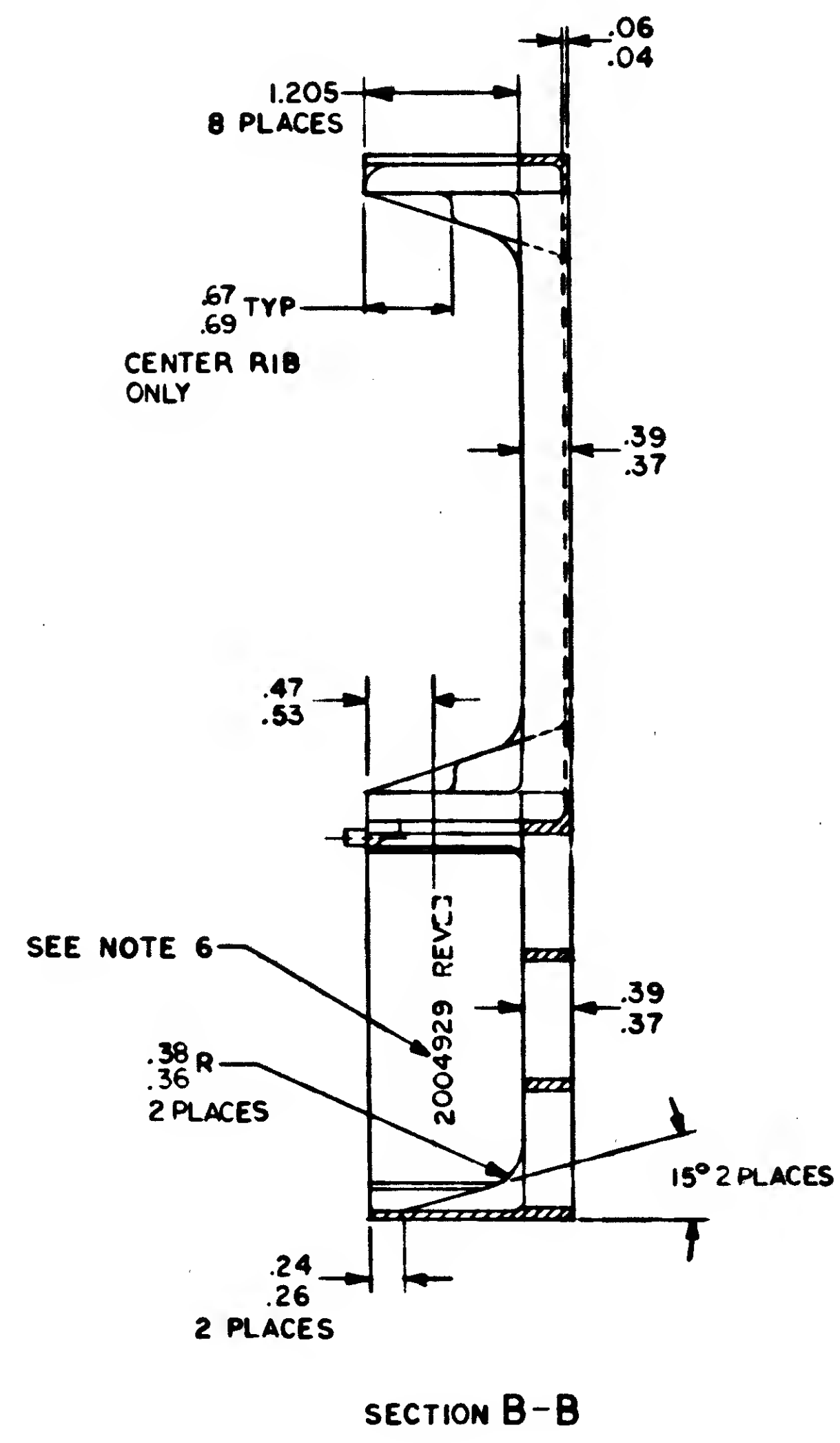
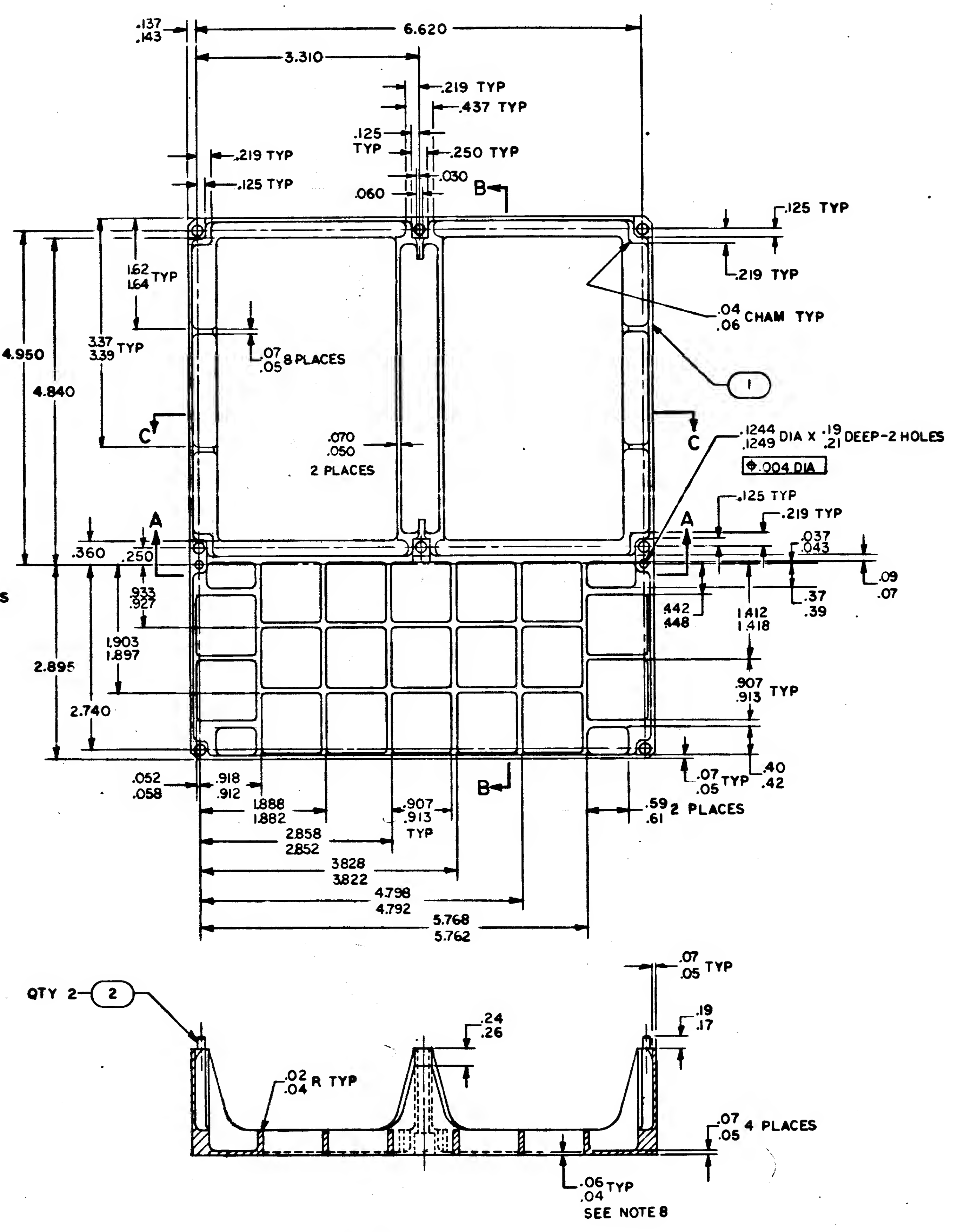
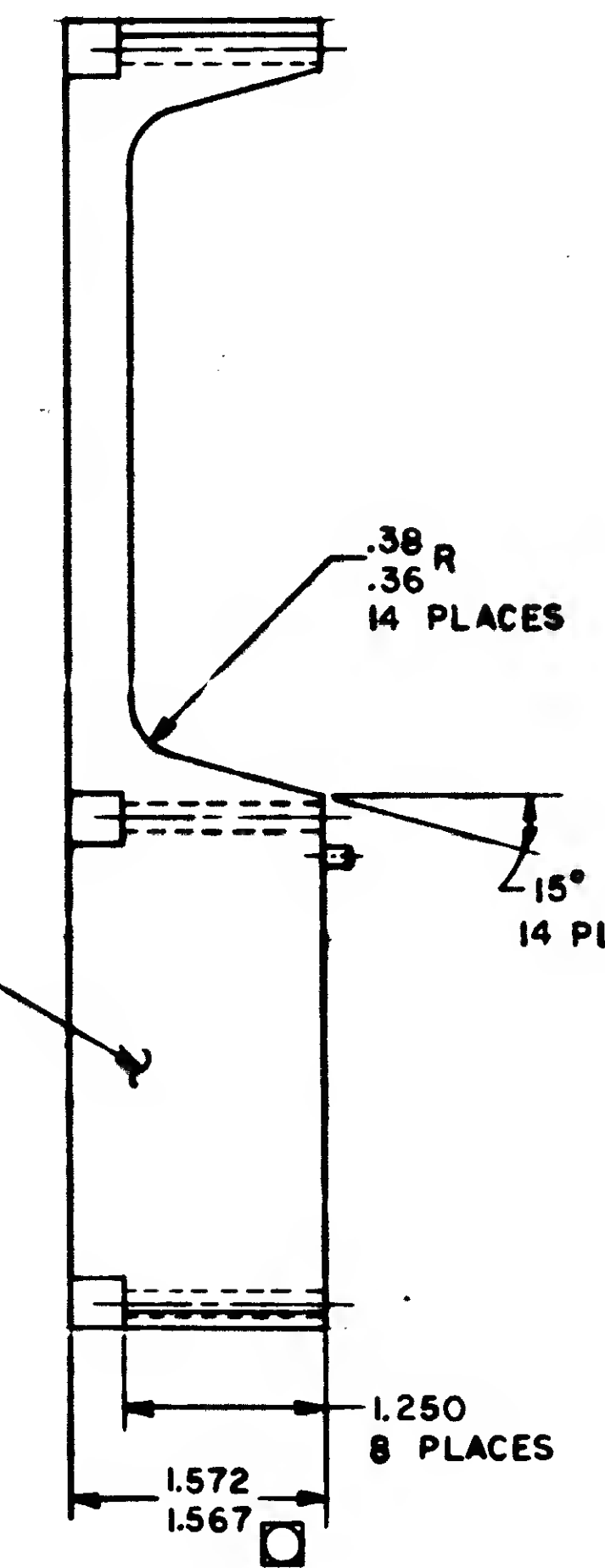
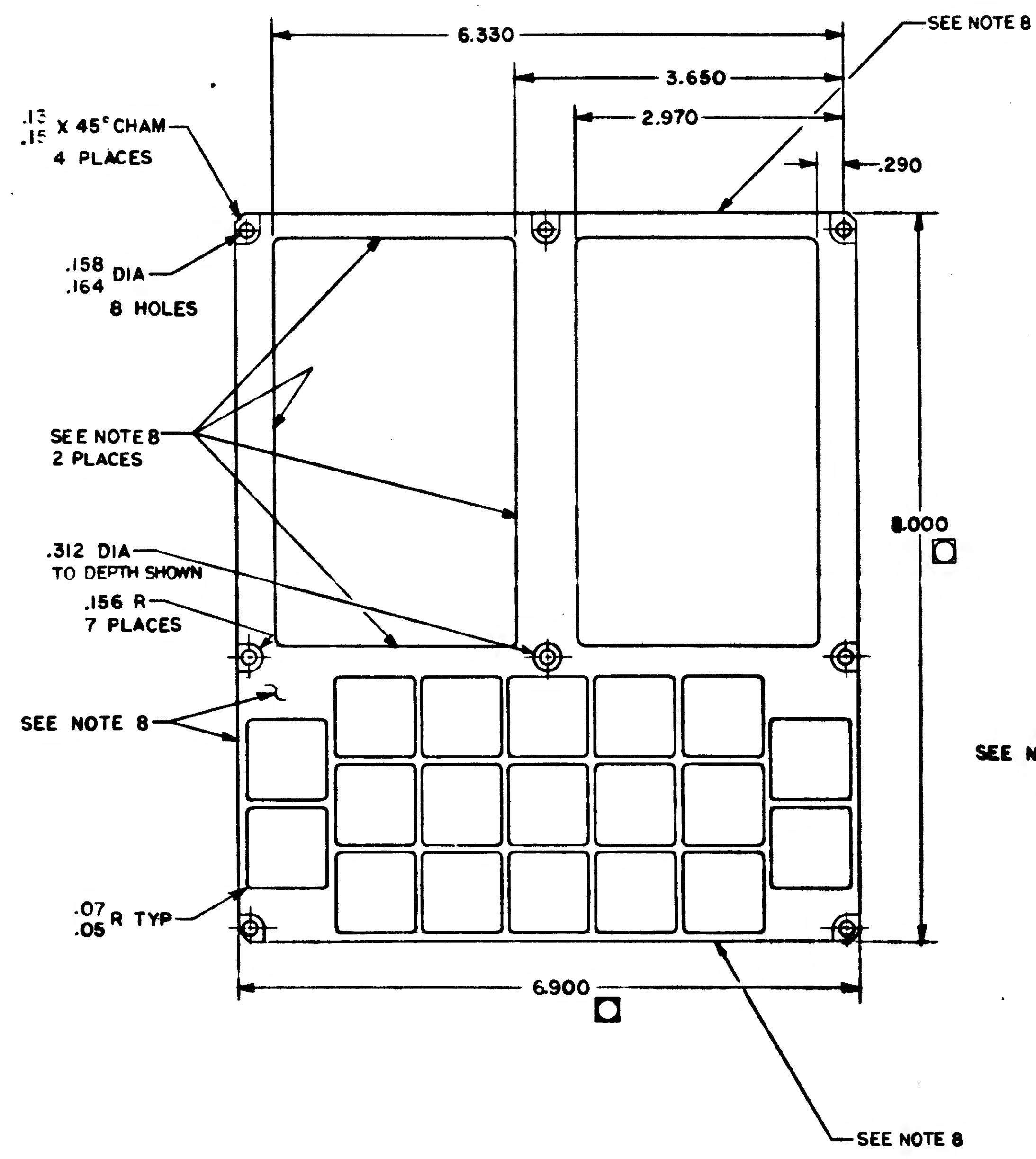


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QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR C DESCRIPTION
M I T		
INSTRUMENTATION LAB		
MANNED SPACECRAFT CENTER		
AGC DSKY		
OUTLINE DRAWING		
CODE IDENT NO 80230		SIZE 2003956
SCALE 1/1		MT



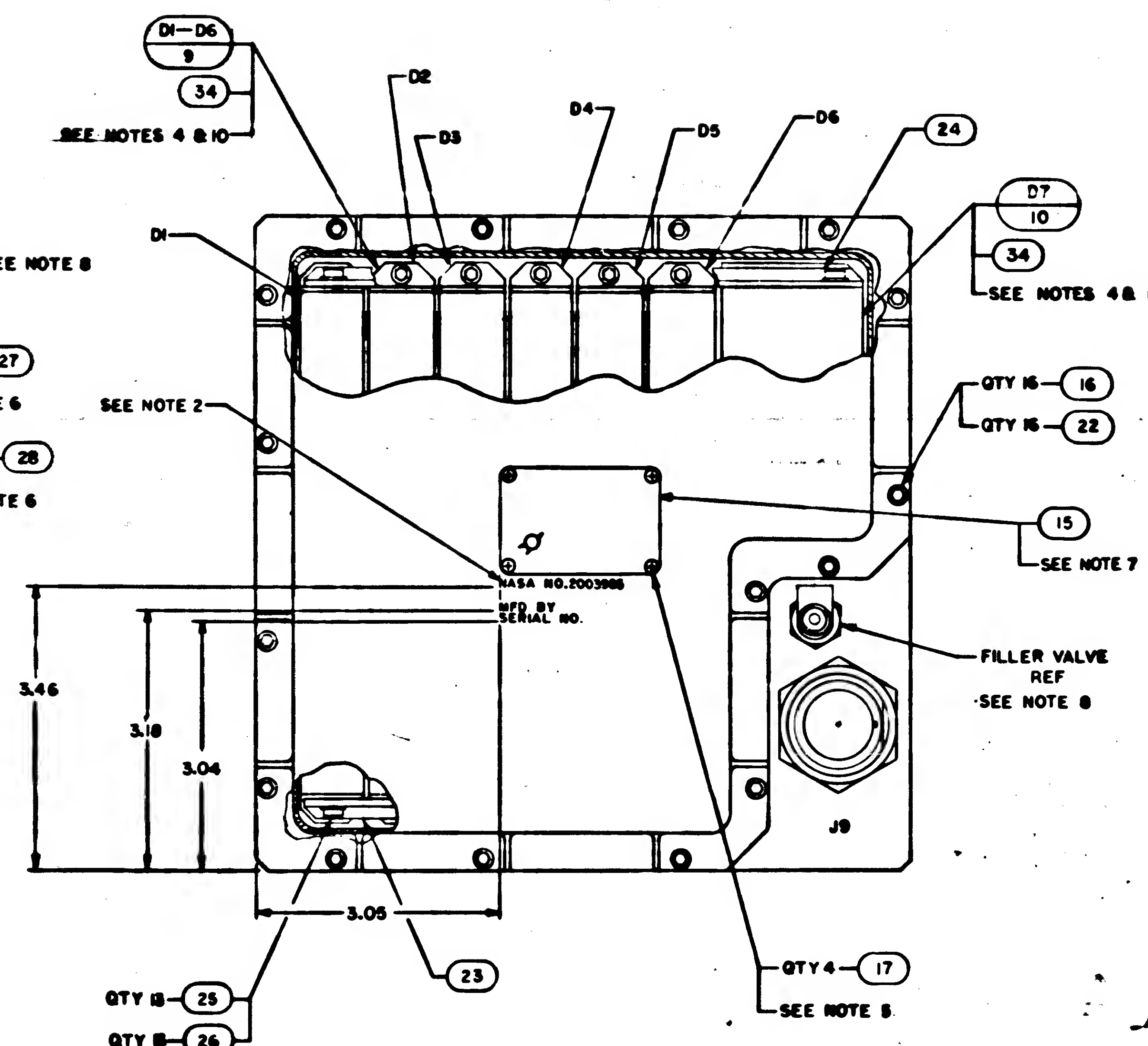
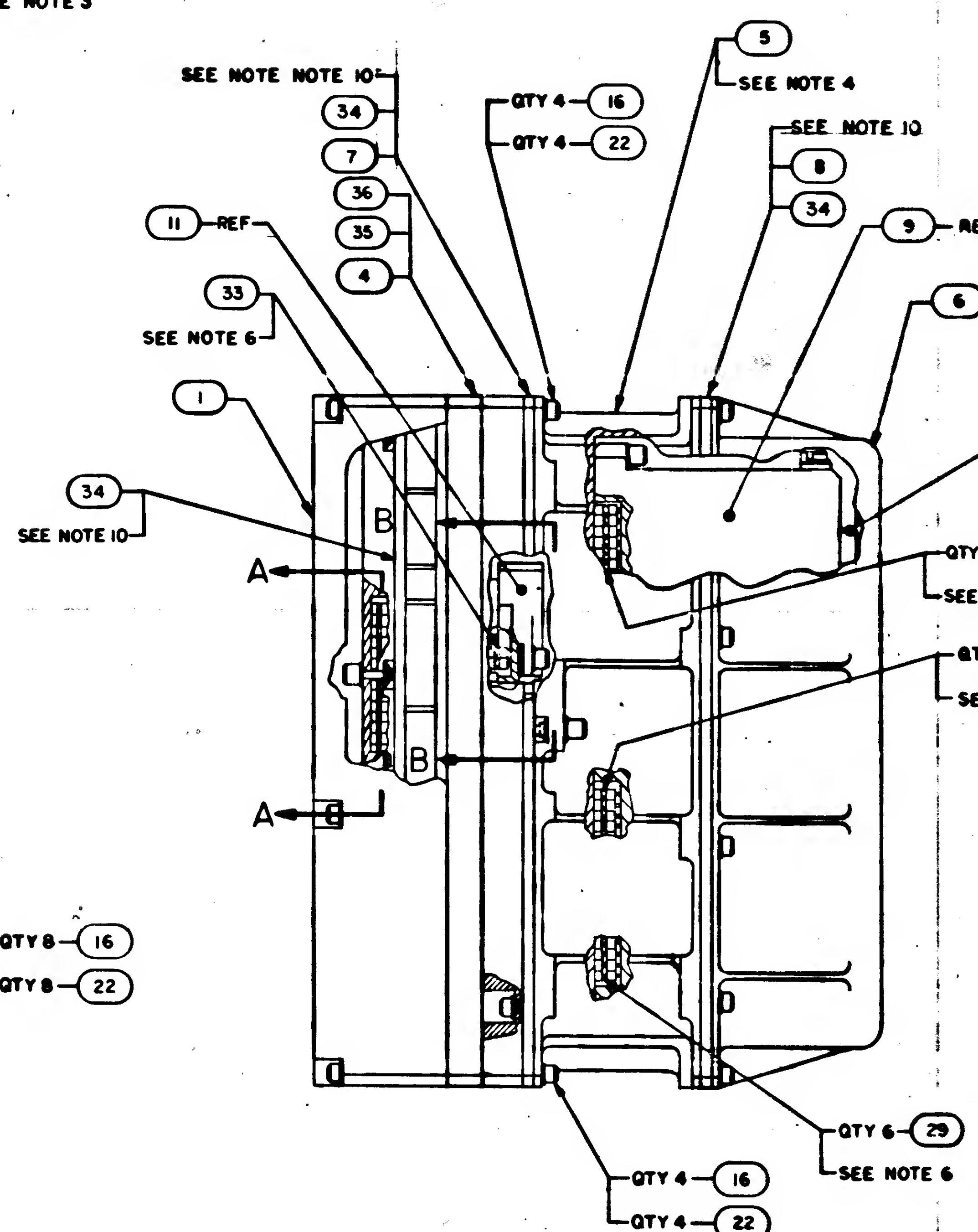
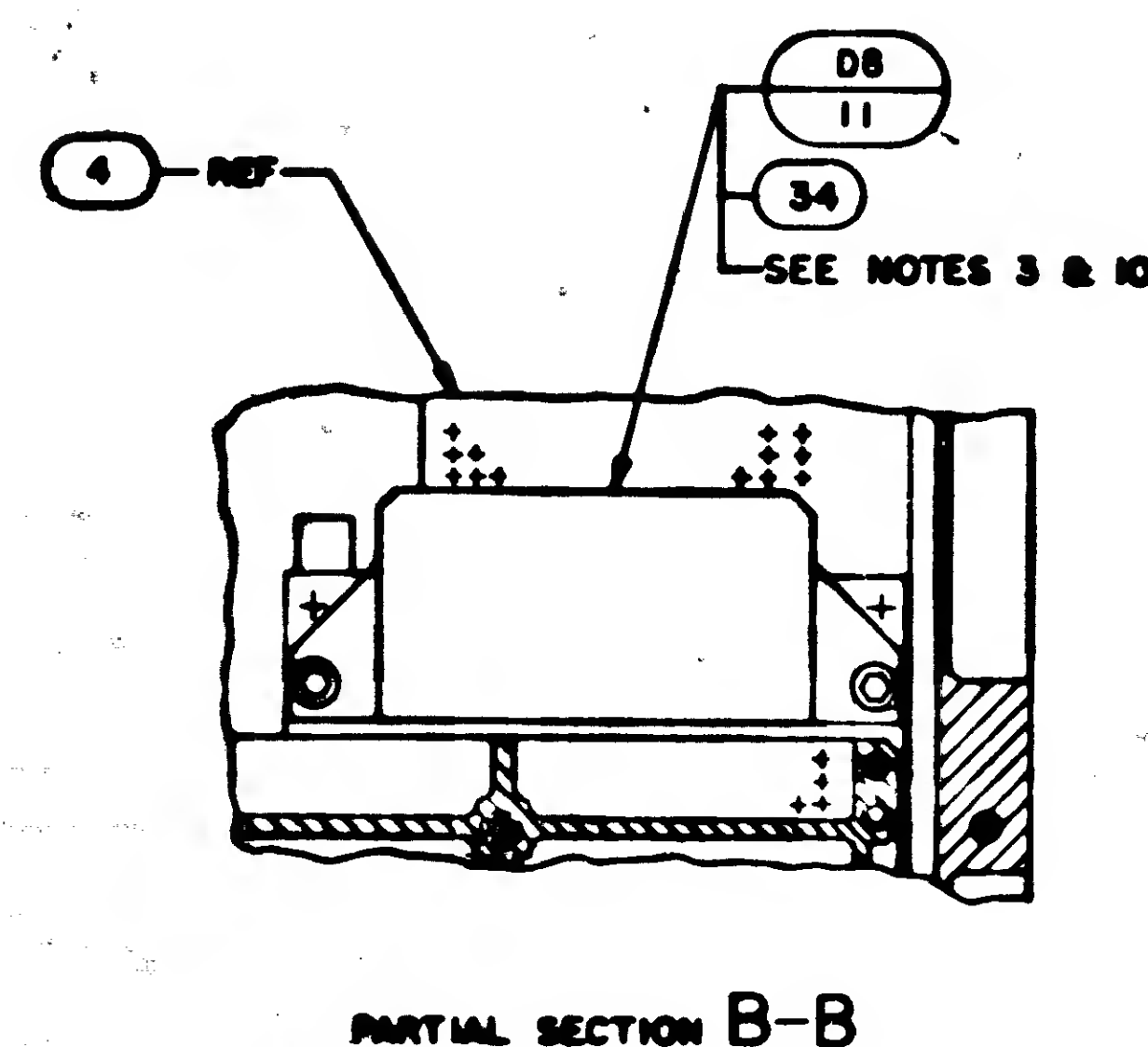
SECTION C-C



SECTION A-A

- NOTES
1. MATL: 6061-T6-AL PER QQ-A-250/11,TEMP 6
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. ALL SURFACES 125/
 4. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS B
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADI TO BE .09 R MAX
 6. MARK .10/.14 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2 USING INK 1006271-10
 7. DIMENSIONS CONTROLLED BY ICD MHOI
 8. PAINT INDICATED SURFACES WITH 1010729-1 RED GRAY EPOXY ENAMEL PER ND1002110
 9. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2 NS16555-628		PIN, COWEL	
2004929-001		COVER, FRONT	
QTY REQD	PART OR IDENTIFYING NO.	SIGNATURE OR DESCRIPTION	
LIST OF MATERIALS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ±.005 ±.005 ±2°		DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1	
HEAT TREATMENT NONE		NADA APPROVAL NMT APPROVAL	
APPLICATION		SCALE 1/1	
2003900		80230 J	
NEXT ASSY		2004929	



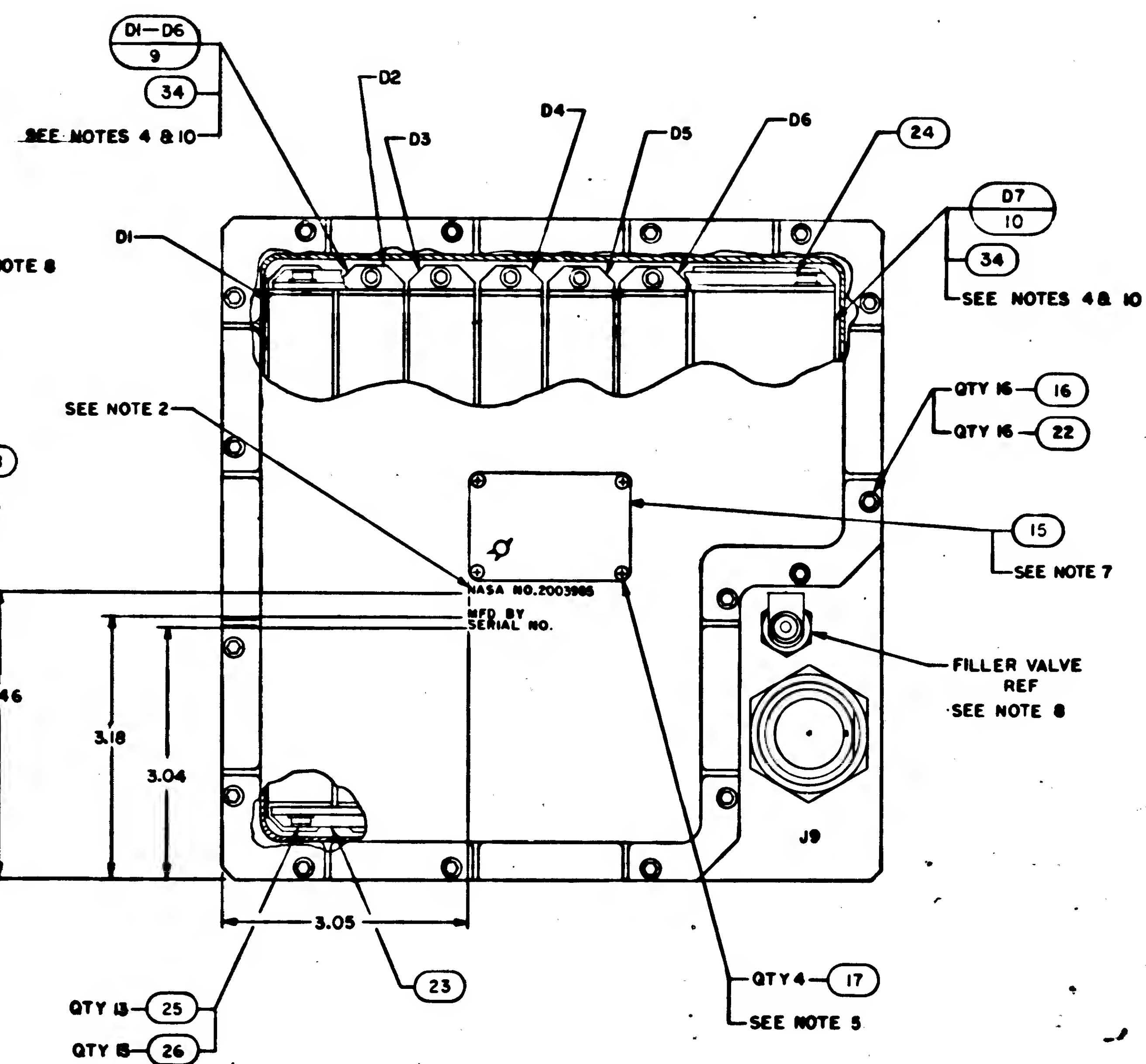
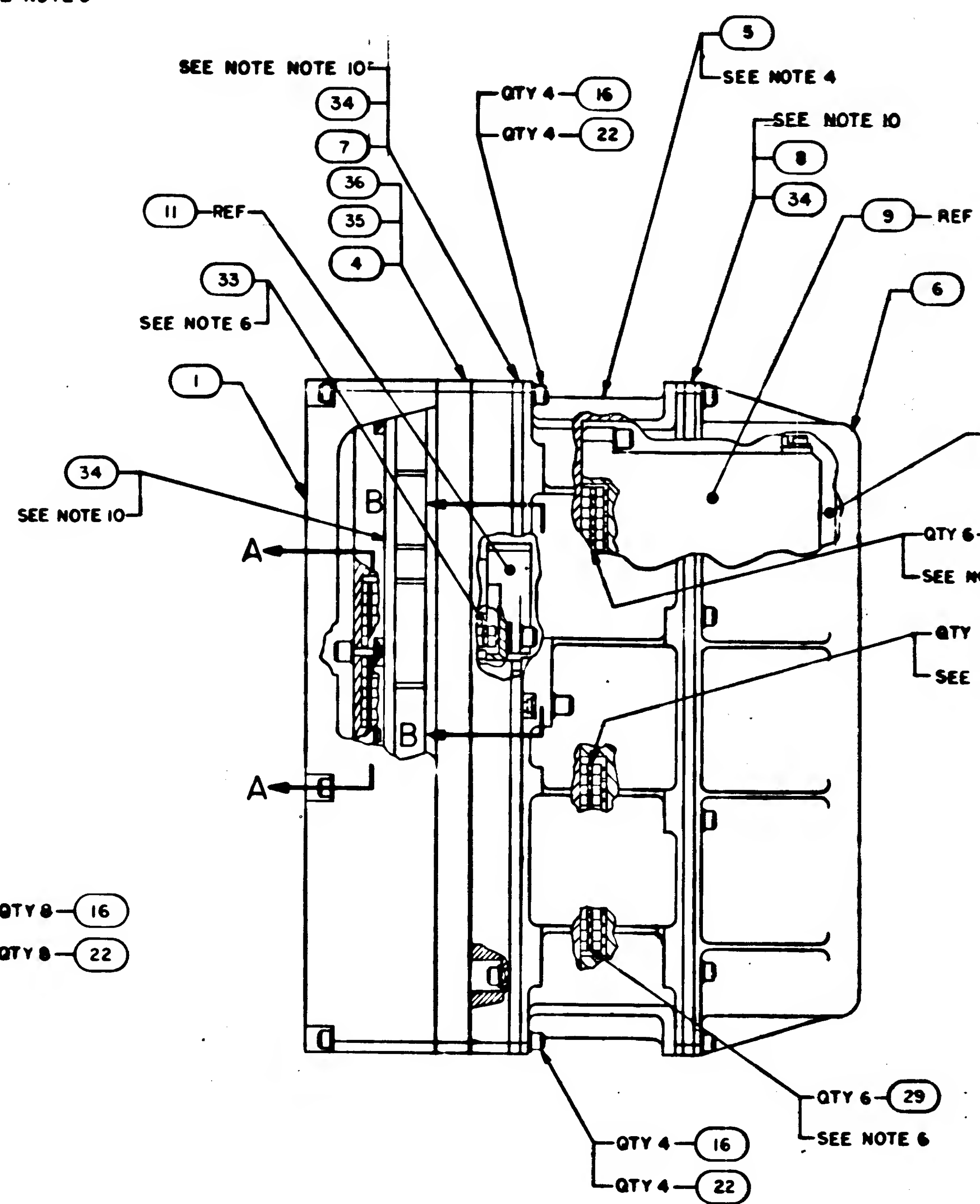
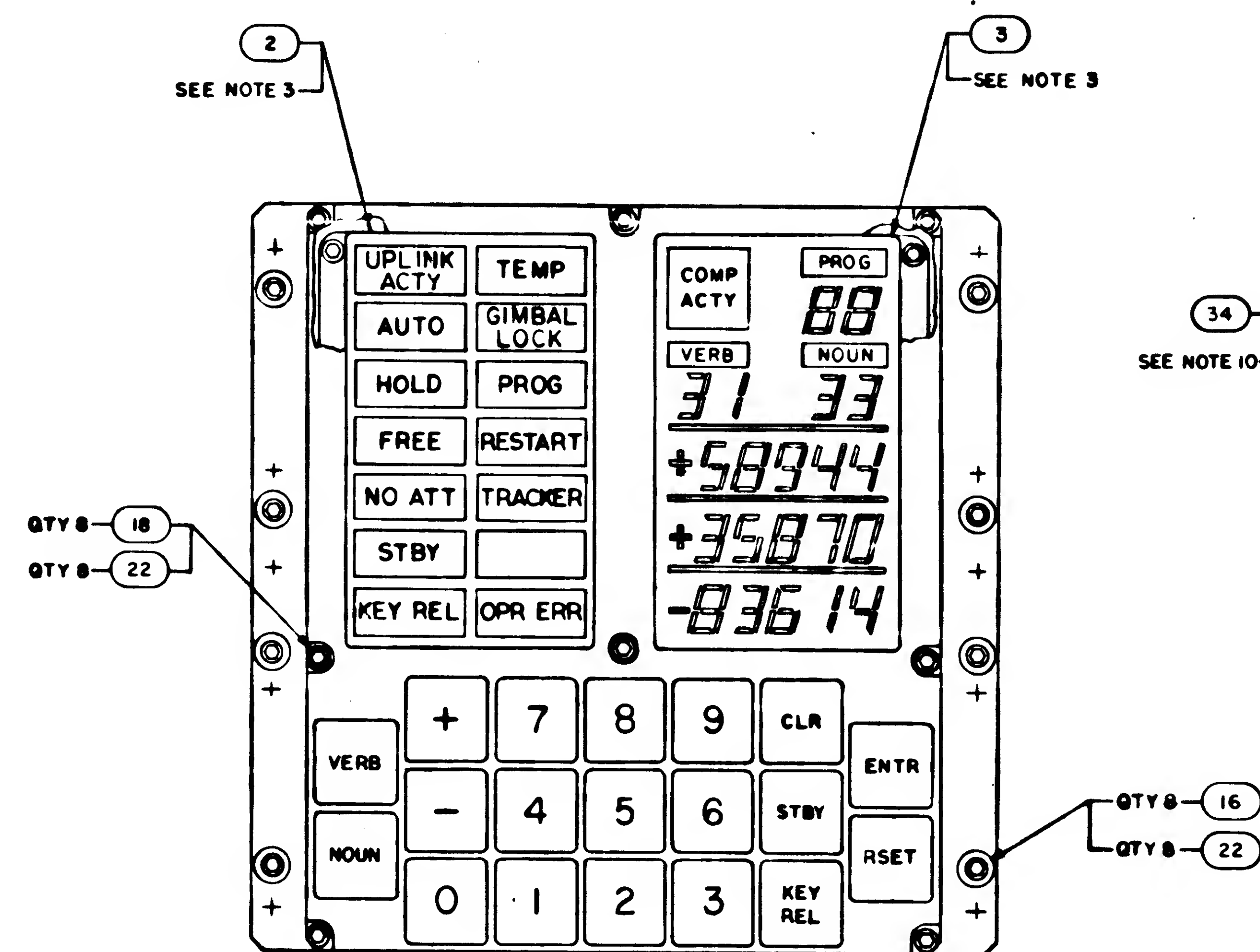
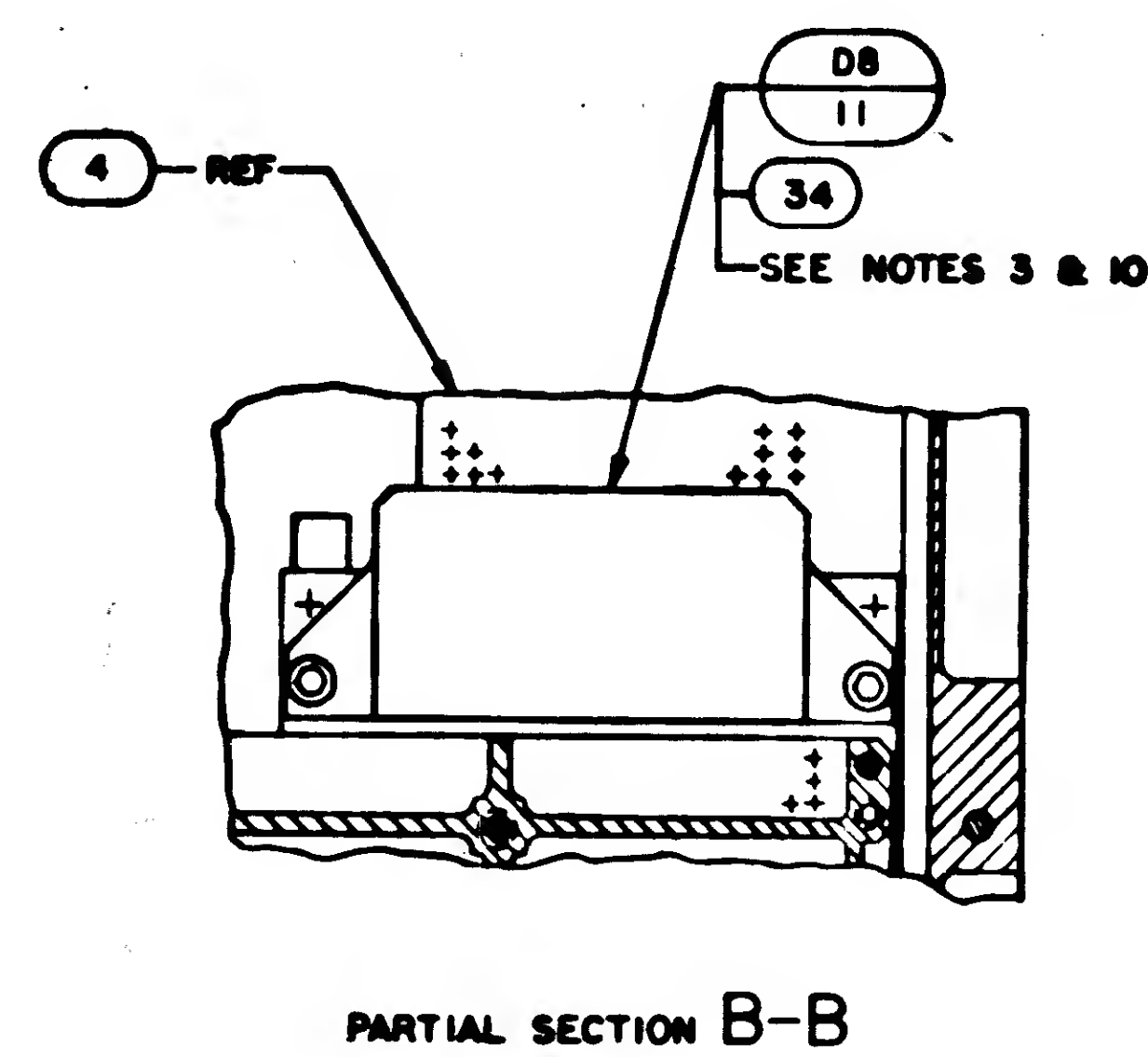
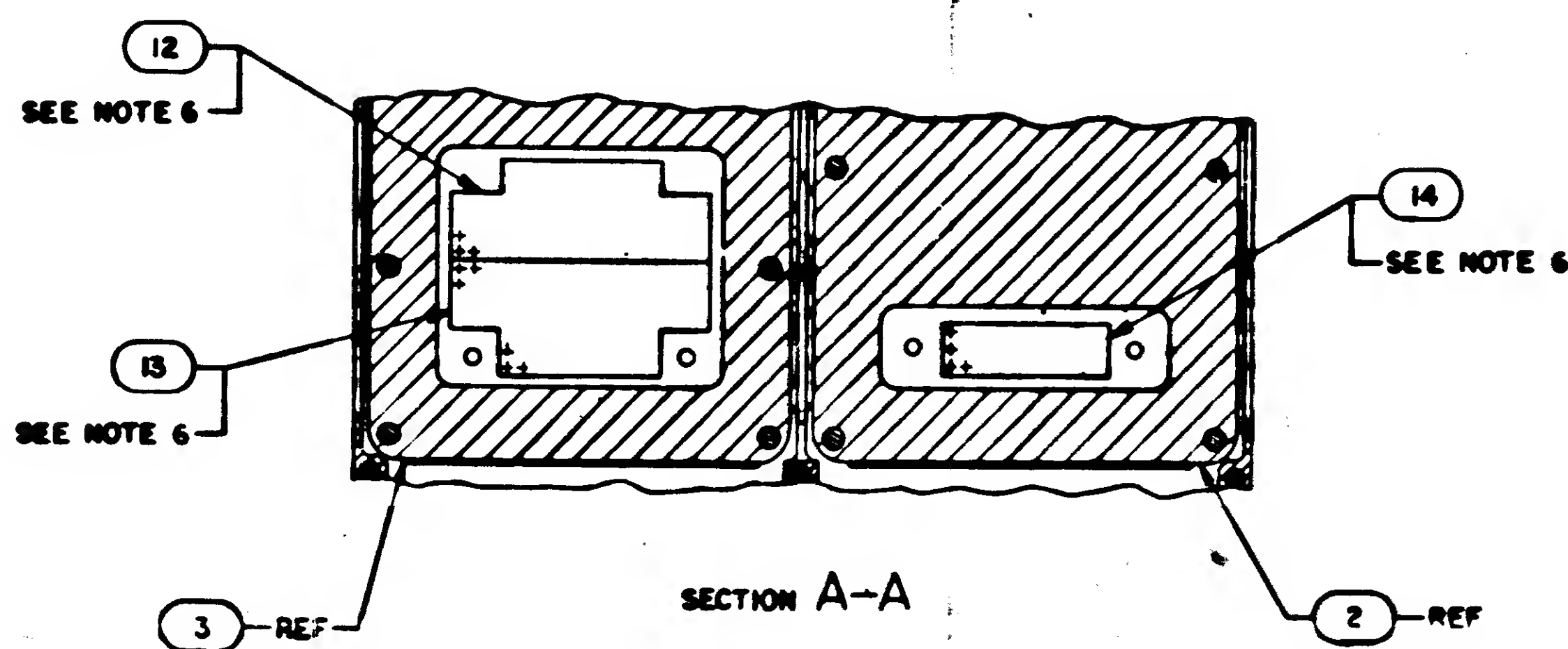
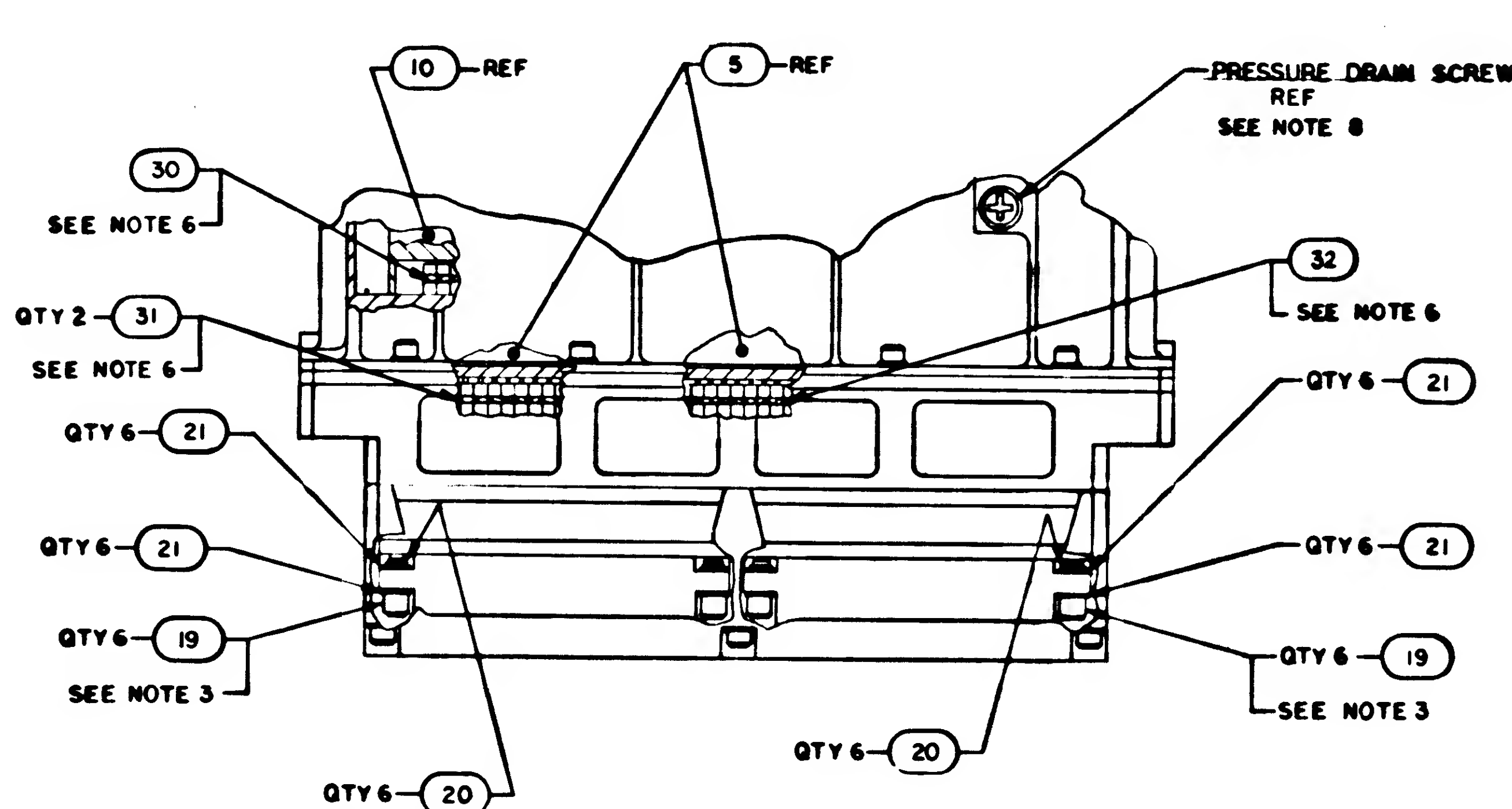
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MARK 10/08 HIGH BLACK CHARACTERS PER NID00209 AND NID00211, TYPE II, CLASS 2
3. AND SERIALIZE PER NID00203 USING INK 1006271-11
- 3.1. MOUNTING TORQUE FOR FND NO.19 AND JACK SCREWS OF FND NO.12,22 TO BE 7-10 INCH POUNDS
4. MOUNTING TORQUE FOR JACK SCREWS OF FND NO.5,9 & 10 TO BE 16-19 INCH POUNDS
5. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FND NO.17
6. BOND FND NO.12,13 TO FND NO.3, FND 10,14 TO FND NO.2, FND NO.27,28,29 TO FND NO.9,
FND NO.30 TO FND NO.31, FND NO.32 TO FND NO.5, FND NO.33 TO FND NO.11 PER NID002237
7. STAMP CHARACTERS PER NID002019 AND SERIALIZE PER NID00183
8. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM
OF 4.3% AIR TO 105/110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS
OF PS2003985
10. APPLY FND NO.34 TO MATING SURFACES OF FND NO.4,7,8,9,10 AND 11
DO NOT APPLY TO RUBBER BUFFER OF FND NO.4,7, AND 8
11. 68 DEGREES AS REQUIRED

[illegible]

		[051] [021] [011]		LIST OF MATERIALS					
		DTIC OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES .002 -		INSTRUMENTATION LAB COLUMBIA ROAD BOX 20 HOUSTON TEXAS DRAWING <u>2-122</u> DATE <u>12-22-66</u> CHECKED <u>[Signature]</u> APPROVED <u>[Signature]</u> APPROVED <u>[Signature]</u>		MANNED SPACECRAFT CENTER HOUSTON TEXAS			
		DO NOT SCALE THIS DRAWING MATERIAL		AGC DSKY ASSEMBLY					
		WEAT RELATION		NADA APPROVAL <u>[Signature]</u>		CODE IDENT NO. SIZE 80230 J		NADA DRAWING NO. 2003985	
NEXT ASSY USED ON		SCALE USED		REV. APPROVED <u>[Signature]</u>		REV. 1/1		INSET 1 OF	
APP. <u>[Signature]</u>									

2003985 B

REV	DESCRIPTION	DATE	BY	APP
1	REVISED PER TDR 22462			
2	DR 22462, CHK 22462, APPD 22462			
3	REVISED PER TDR 23637			
4	DR 23637, CHK 23637, APPD 23637			

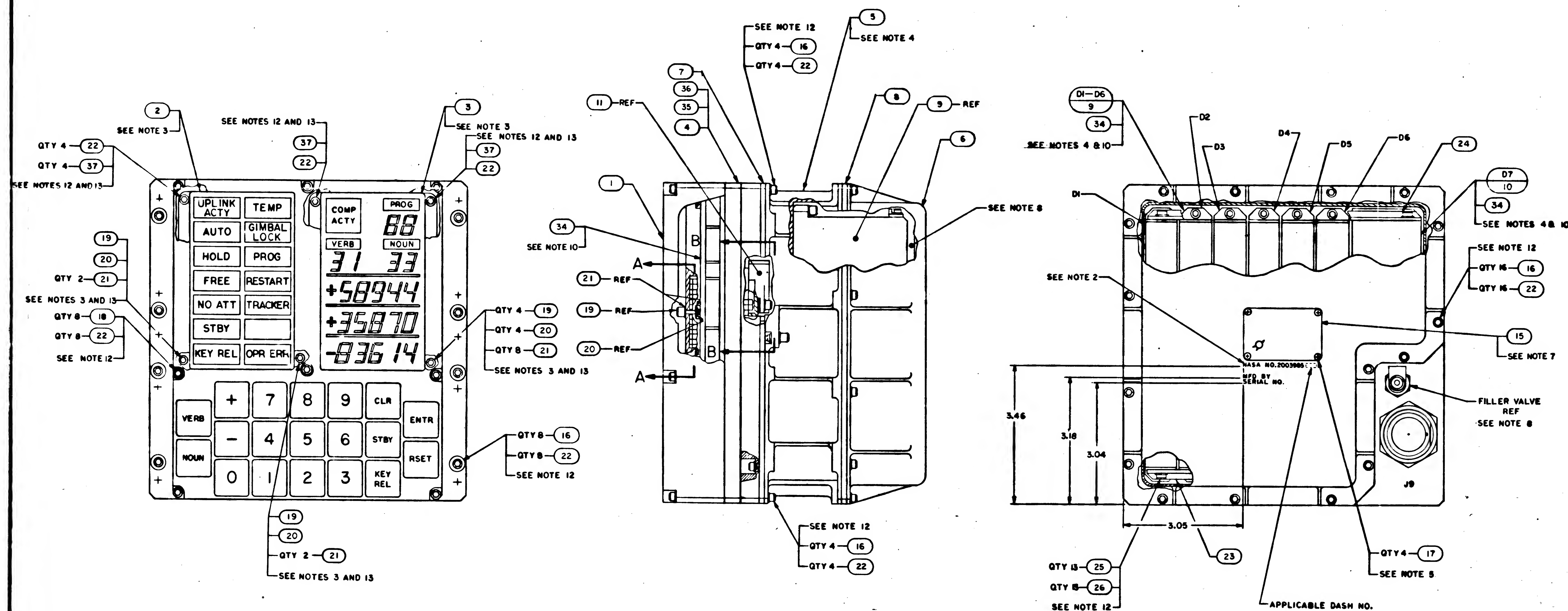
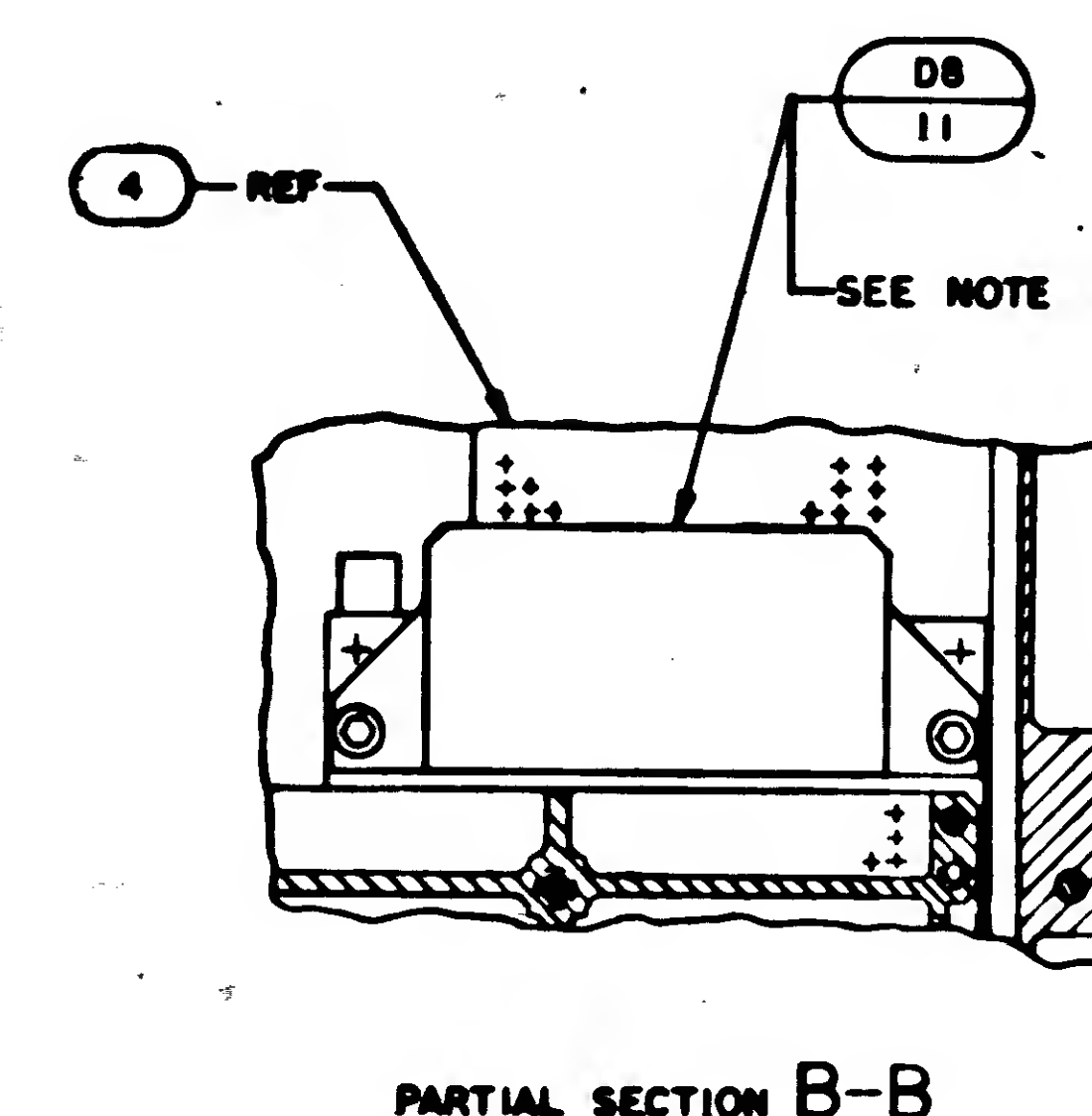
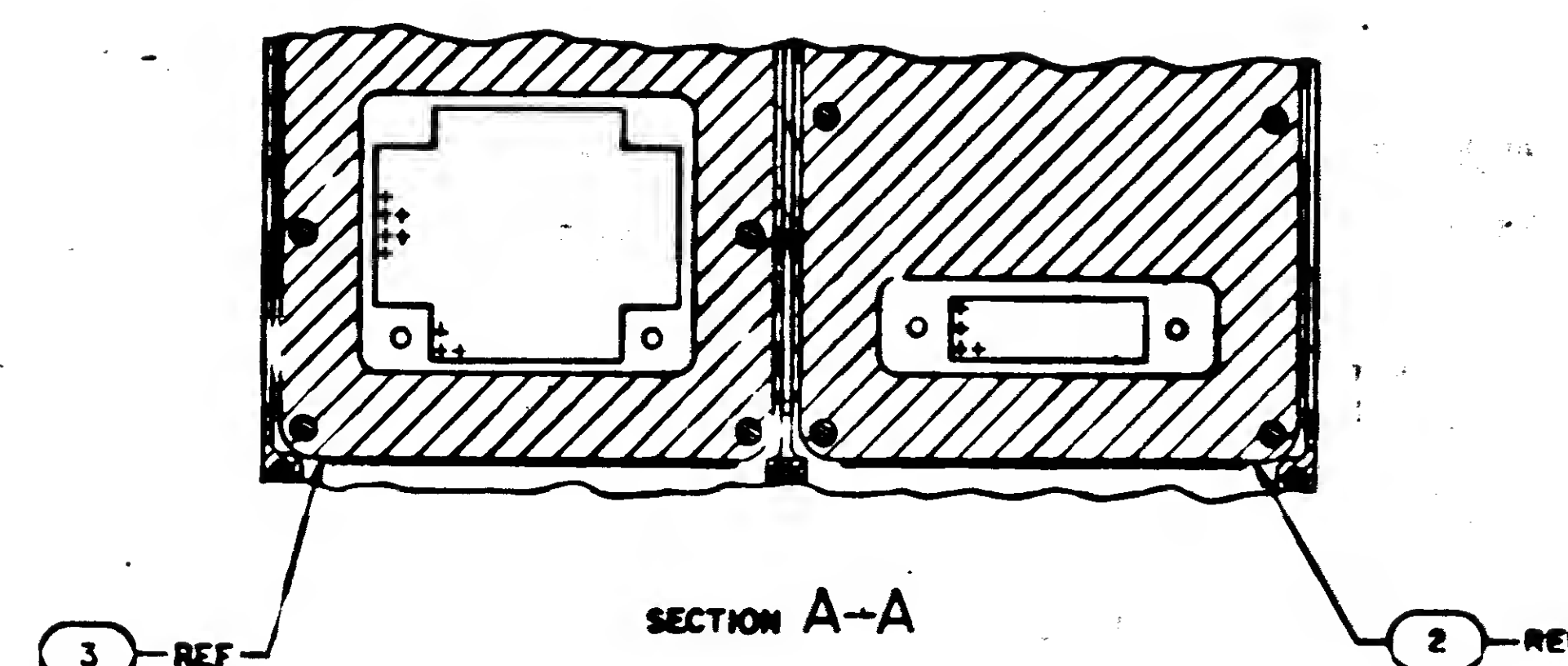


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MARK 10/08 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2
 3. AND SERIALIZE PER ND1002023 USING INK 1006271-11
 4. MOUNTING TORQUE FOR FINI NO. 19 AND JACK SCREWS OF FIND NO. 11 TO BE 7-10 INCH POUNDS
 5. APPLY SEALING COMPOUND MIL-5-22473 GRADE N TO FIND NO. 17
 6. BOND FIND NO. 12, 13 TO FIND NO. 3, FIND NO. 14 TO FIND NO. 2, FIND NO. 27, 28, 29 TO FIND NO. 9
 7. FIND NO. 30 TO FIND NO. 10, FIND NO. 31, 32 TO FIND NO. 5, FIND NO. 33 TO FIND NO. 11 PER ND1002237
 8. STAMP CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023
 9. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 1.05/1.10 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
 10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2003985
 11. APPLY FIND NO. 34 TO MATING SURFACES OF FIND NO. 4, 7, 8, 9, 10 AND 11
 12. DO NOT APPLY TO BONDED RUBBER OF FIND NO. 4, 7, AND 8
 13. AR DENOTES AS REQUIRED

QTY	REQD	QTY	REQD	QTY	REQD	PART OR IDENTIFYING NO	NOMENCLATURE OF DESCRIPTION	FIND NO
1	1	1	1	1	1	2003956	OUTLINE DRAWING	REF
1	1	1	1	1	1	2003957	SIGNAL PIN ASSIGNMENT	REF
1	1	1	1	1	1	2003951	INTERCONNECTING DIAGRAM	REF
1	1	1	1	1	1	2003950	SIGNAL FLOW DIAGRAM	REF
1	1	1	1	1	1	2003903-031	FRONT HOUSING ASSY	36
1	1	1	1	1	1	2003903-021	FRONT HOUSING ASSY	35
AR	AR	AR	AR	AR	AR	1006379	SILICONE COMPOUND	34
1	1	1	1	1	1	2004955-005	GASKET	33
1	1	1	1	1	1	2004955-008	GASKET	32
2	2	2	2	2	2	2004955-007	GASKET	31
1	1	1	1	1	1	2004955-006	GASKET	30
6	6	6	6	6	6	2004955-003	GASKET	29
6	6	6	6	6	6	2004955-002	GASKET	28
6	6	6	6	6	6	2004955-004	GASKET	27
13	13	13	13	13	13	MS16992-10	SCREW, HEX SOCKET HEAD	26
13	13	13	13	13	13	NAS620C4	WASHER, FLAT	25
1	1	1	1	1	1	2004958	BRACKET, MODULE	24
1	1	1	1	1	1	2004959	BRACKET, MODULE	23
40	40	40	40	40	40	NAS620C6	WASHER, FLAT	22
24	24	24	24	24	24	1004546-4	WASHER, FLAT	21
12	12	12	12	12	12	MS16633-4014	RING, RETAINING	20
12	12	12	12	12	12	2004932-001	SCREW, JACKING	19
8	8	8	8	8	8	1001489-58	SCREW, HEX SOCKET HEAD	18
4	4	4	4	4	4	MS35216-1	SCREW, PAN HEAD, CROSS RECESSED	17
32	32	32	32	32	32	MS16995-18	SCREW, CAP, SOCKET HEAD	16
1	1	1	1	1	1	1004260-20	NAMEPLATE	15
1	1	1	1	1	1	2004955-001	GASKET	14
1	1	1	1	1	1	2004953-002	GASKET	13
1	1	1	1	1	1	2004953-001	GASKET	12
1	1	1	1	1	1	2003909-011	KEYBOARD MODULE ASSY D8	11
1	1	1	1	1	1	2003901-011	POWER SUPPLY ASSY MODULE D7	10
6	6	6	6	6	6	2003902-011	INDICATOR DRIVER MODULE D1-D6	9
1	1	1	1	1	1	1006349	GASKET, BC IDED, RUBBER	8
1	1	1	1	1	1	1006350	GASKET, BC IDED, RUBBER	7
1	1	1	1	1	1	2004900	COVER, REAR	6
1	1	1	1	1	1	2003954-011	MAIN HOUSING ASSY	5
1	1	1	1	1	1	2003903-011	FRONT HOUSING ASSY	4
1	1	1	1	1	1	2004935	INDICATOR, DIGITAL	3
1	1	1	1	1	1	1006316	INDICATOR, ALARM	2
1	1	1	1	1	1	2004929-011	COVER, FRONT	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS DO NOT SCALE THIS DRAWING MATERIAL		MANNED SPACECRAFT CENTER HEADQUARTERS AGC DSKY ASSEMBLY	
DATE 10/08/66	BY J. L. L. L.	CODE IDENT NO 80230 J	NASA DRAWING NO 2003985
APPROVAL J. L. L. L.	APPROVAL J. L. L. L.	SCALE 1/1	SHEET 1 OF 1

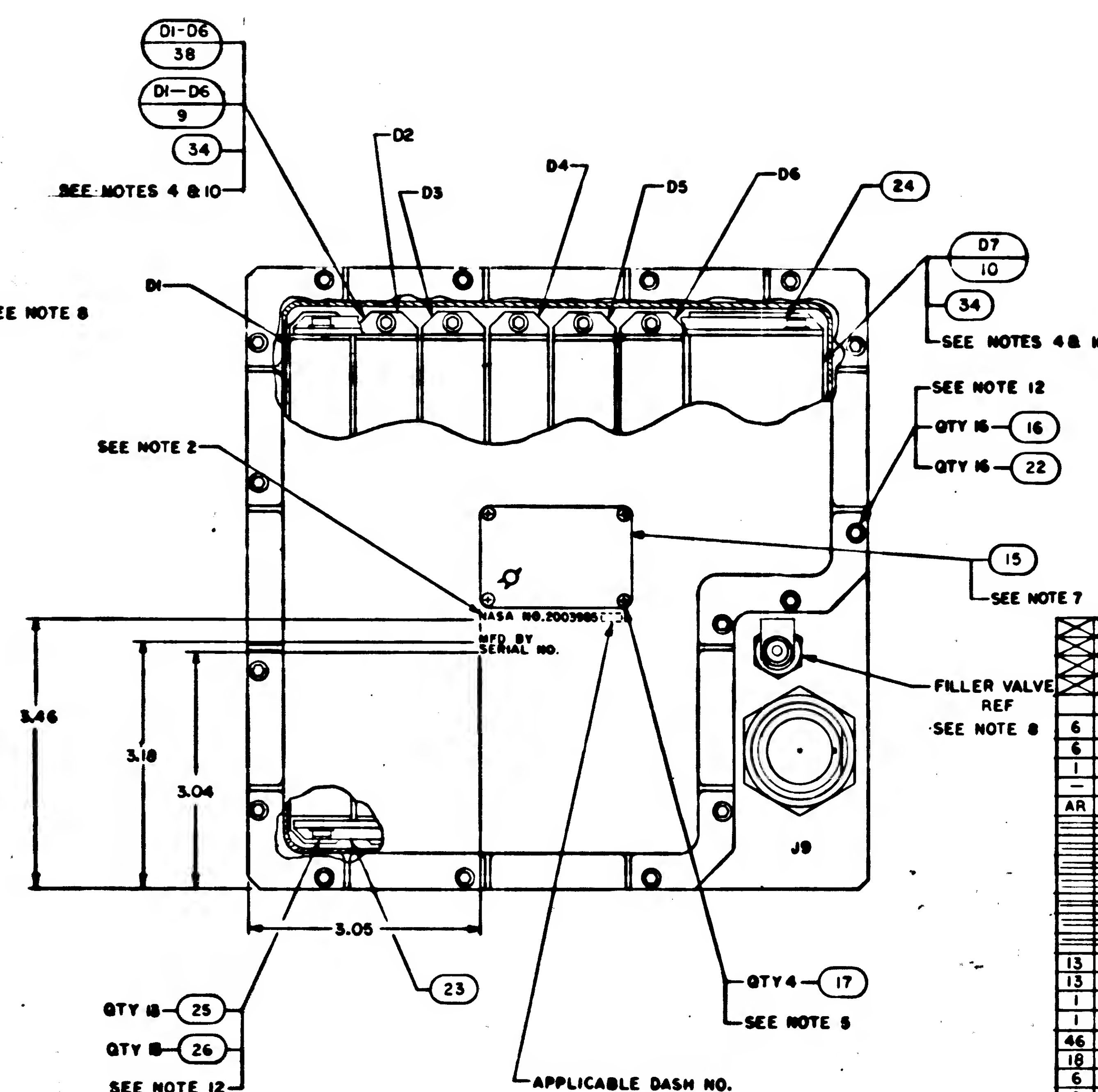
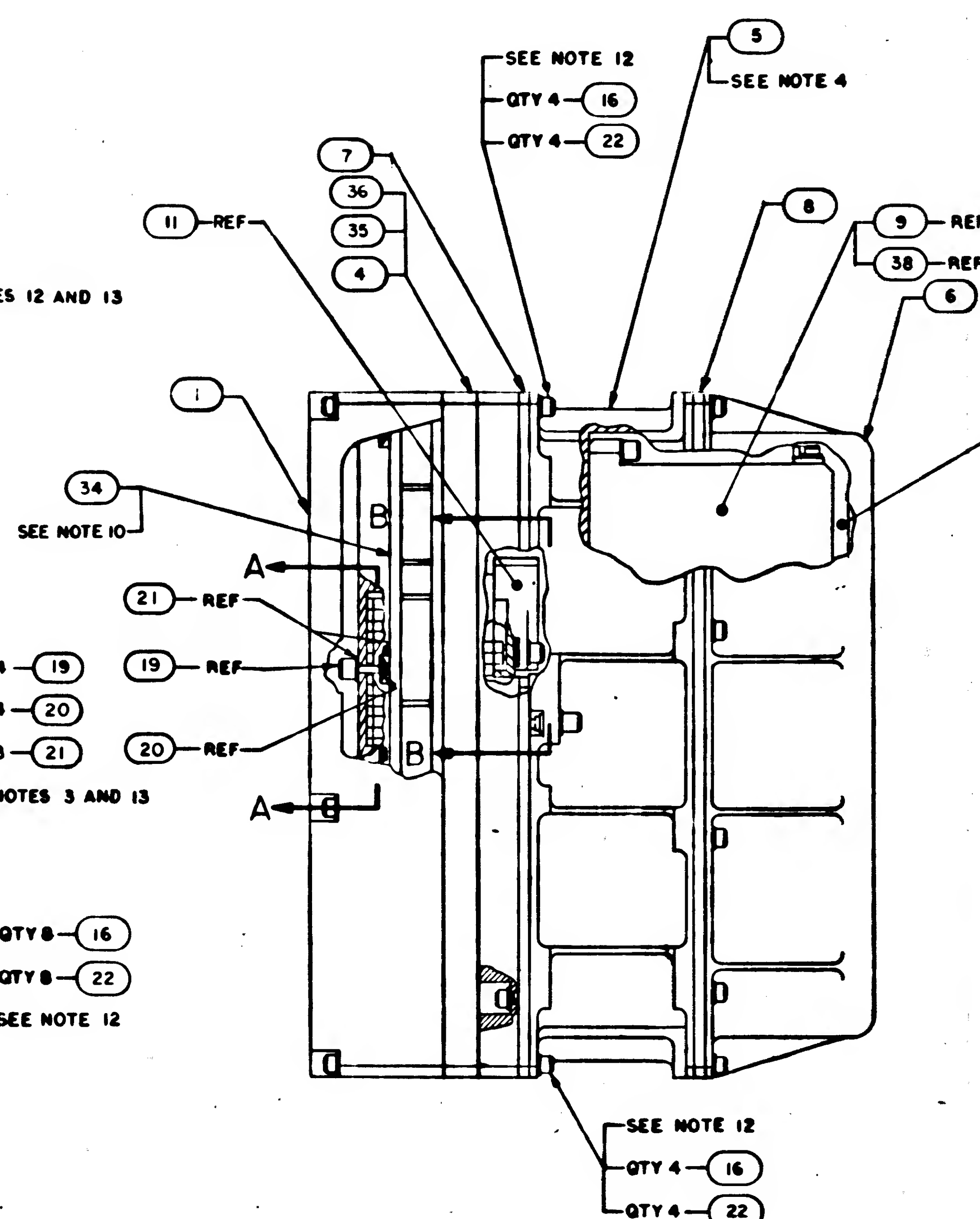
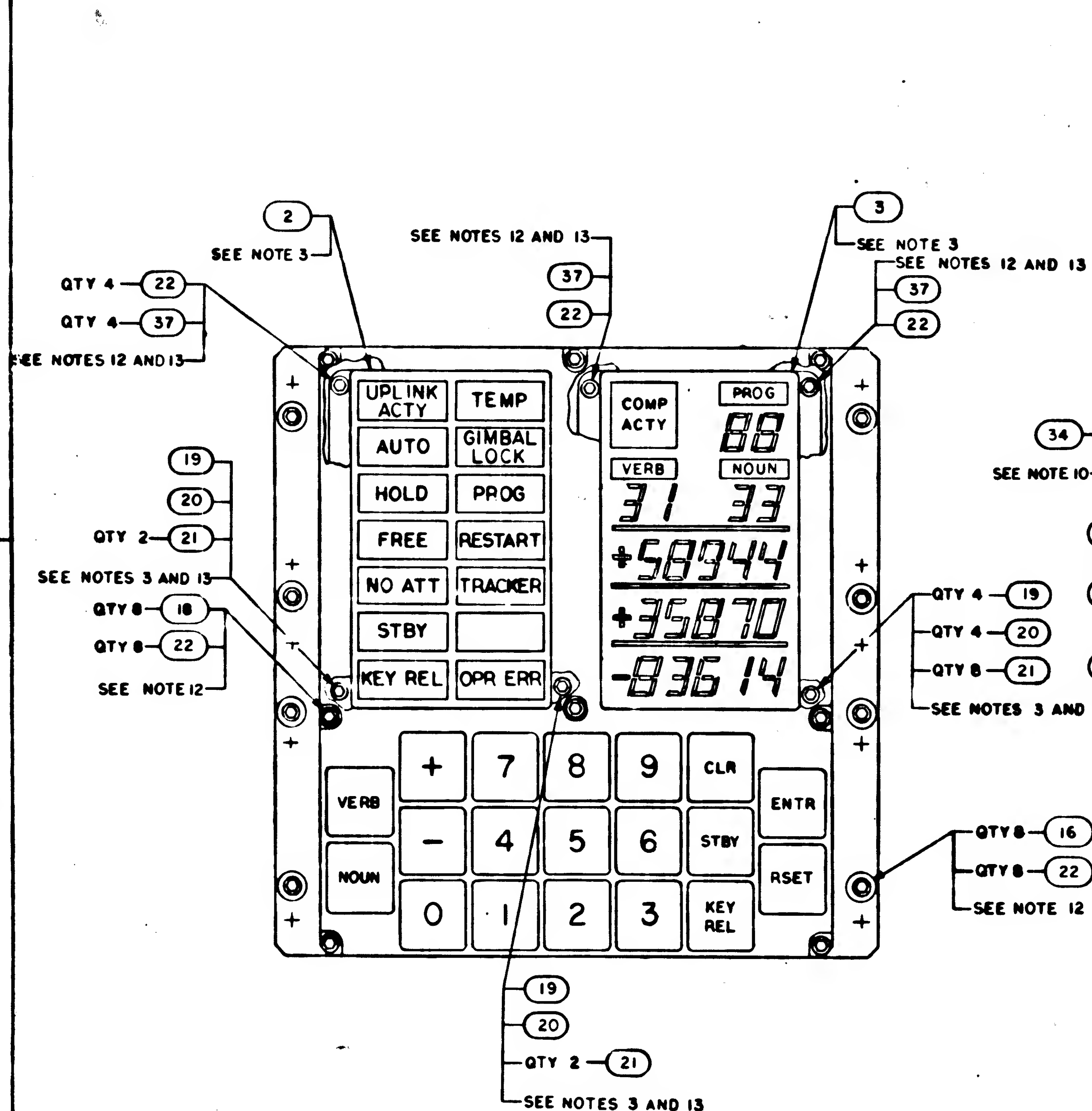
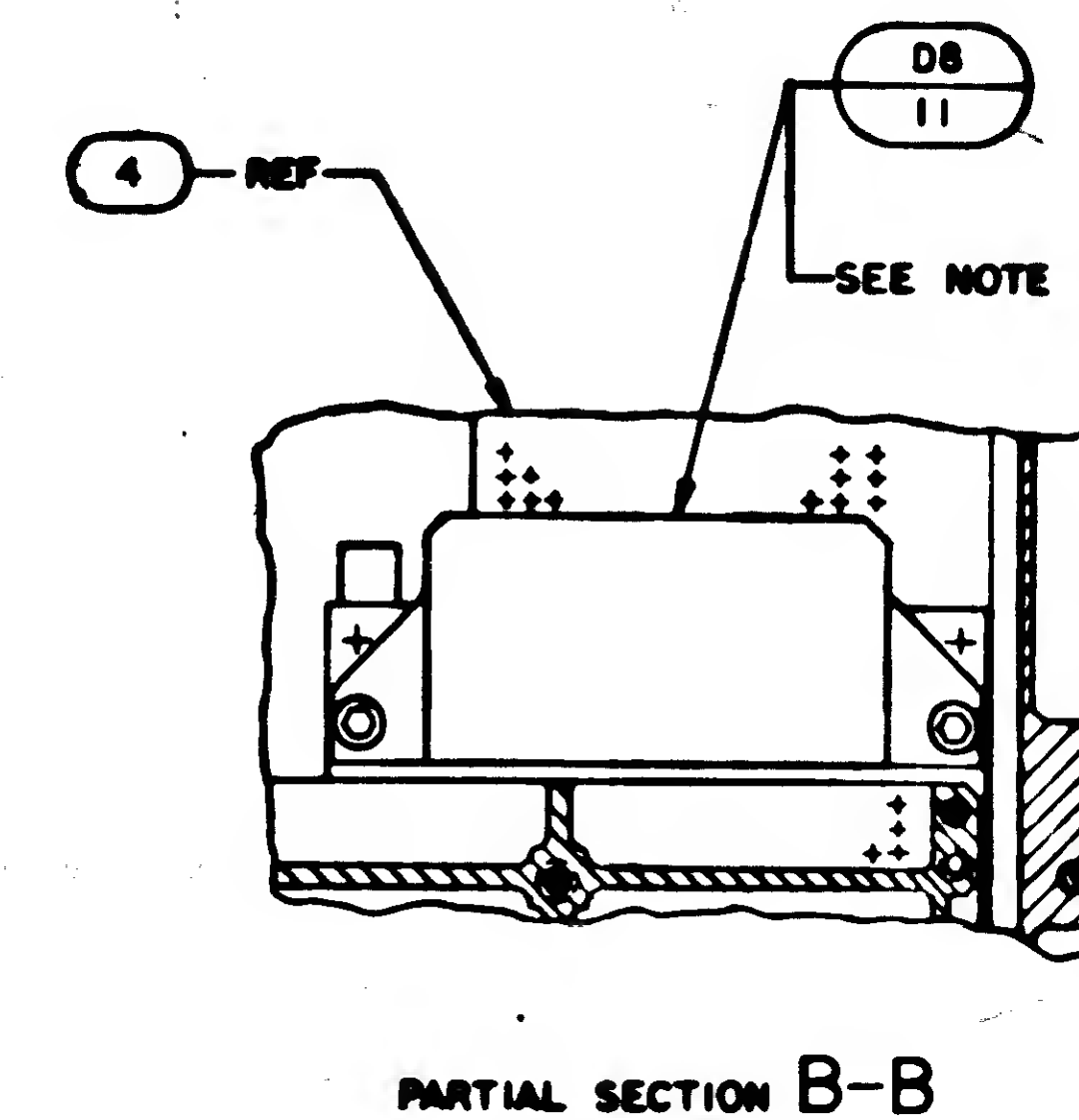
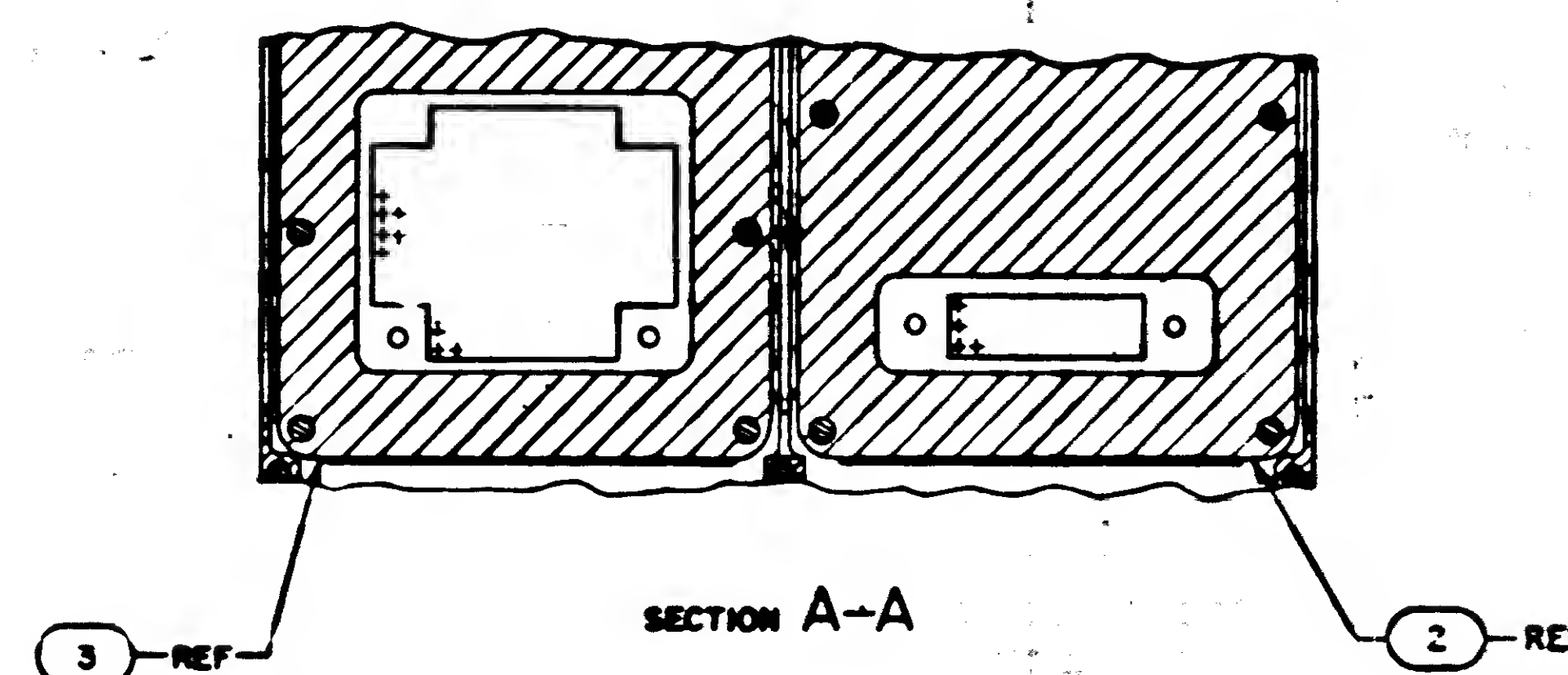
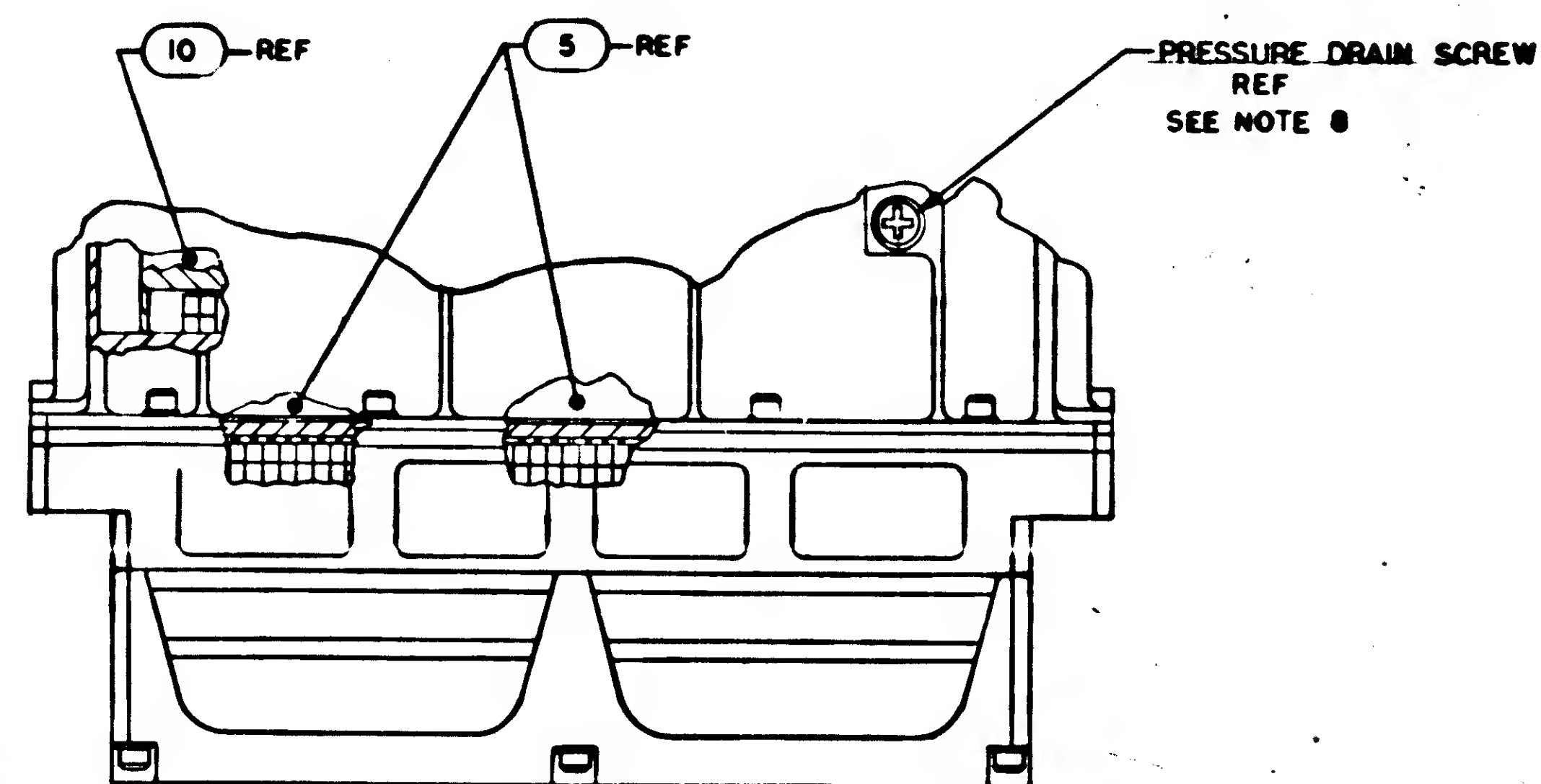
2003985 B



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MARK I/O 06 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2
AND SERIALIZE PER ND1002023 USING INK 1006271-I
3. MOUNTING TORQUE FOR FIND NO. 15 AND JACK SCREWS OF FIND NO. 11 TO BE 7-10 INCH POUNDS
4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 9 & 10 TO BE 15-19 INCH POUNDS
5. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO.17
- ~~6. BOND FIND NO. 12, 13 TO FIND NO. 3, FIND NO. 4, FIND NO. 2, FIND NO. 27, 28, 29 TO FIND NO. 9~~
- ~~7. STAMP CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023 TO FIND NO. 11 PER ND1002033~~
8. FILL WITH A MINIMUM OF 97% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO .75/110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2003985
10. APPLY FIND NO. 34 TO MATING SURFACES OF FIND NO. 4, 9 AND 10
DO NOT APPLY TO BONDED RUBBER OF FIND NO. 4.
11. IAR DENOTES AS REQUIRED
12. MOUNTING TORQUE FOR FIND NO. 16 AND 37 TO BE 8-9 INCH POUNDS
13. MOUNTING TORQUE FOR FIND NO. 18 AND 26 TO BE 3.5-4.5 INCH POUNDS
13. FIND NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4, 35 OR 36
USING FIND NO. 19, BEFORE INSTALLING FIND NO. 37.

				203956	OUTLINE DRAWING	
				200457	SIGNAL PIN ASSIGNMENT	
				200551	INTERCONNECTING DIAGRAM	
				200550	SIGNAL FLOW DIAGRAM	
6	6			MS16995-20	SCREW, CAP, SOCKET HEAD	
1	—			2003903-031	FRONT HOUSING ASSY	
1	—			2003903-021	FRONT HOUSING ASSY	
AR	AR	AR		1006879	SILICONE COMPOUND	
1	1	1		2004935-008	GASKET	
1	1	1		2004935-007	GASKET	
2	2	2		2004935-007	GASKET	
1	1	1		2004955-006	GASKET	
1	1	1		2004955-008	GASKET	
6	6	6		2004956-004	GASKET	
6	6	6		2004958-004	GASKET	
13	13	13		MS16995-10	SCREW, HEX SOCKET HEAD	
13	13	13		NA5620C4	WASHER, FLAT	
1	1	1		2004958	BACKET, MODULE	
1	1	1		2004959	BACKET, MODULE	
46	46	46		NA5620C6	WASHER, FLAT	
18	18	18		1004546-4	WASHER, FLAT	
6	6	6		MS16633-4014	RING, RETAINING	
6	6	6		2004932-001	SCREW, JACK N	
8	8	8		1001489-59	SCREW, HEX SOCKET HEAD	
4	4	4		MS5356-1	SCREW, PAN HEAD, CROSS RECESSED	
32	32	32		MS16959-18	SCREW, CAP, SOCKET HEAD	
1	1	1		1004260-20	NAMEPLATE	
1	1	1		2004955-001	GASKET	
1	1	1		2004955-006	GASKET	
1	1	1		2004955-004	GASKET	
1	1	1		2003908-011	KEYBOARD MODULE ASSY D8	
1	1	1		1003901	CORR SUPPLY ASSY MODULE D7	
6	6	6		2003902-011	INDICATOR DRIVER MODULE DI-D6	
1	1	1		1006349	GASKET, BONDED, RUBBER	
1	1	1		1006350	GASKET, BONDED, RUBBER	
1	1	1		2004900	COVER, REAR	
1	1	1		2003895-011	MAIN HOUSING ASSY	
1	1	1		2003903-011	FRONT HOUSING ASSY	
1	1	1		2004935	INDICATOR, DIGITAL	
1	1	1		1006316	INDICATOR, ALARM	
1	1	1		2004929-011	COVER, FRONT	
QTY	QTY	QTY		PART OR	NONE	
FOR	FOR	FOR		CONTRACT	SIGNATURE	
DATE	DATE	DATE		DATE	DATE	

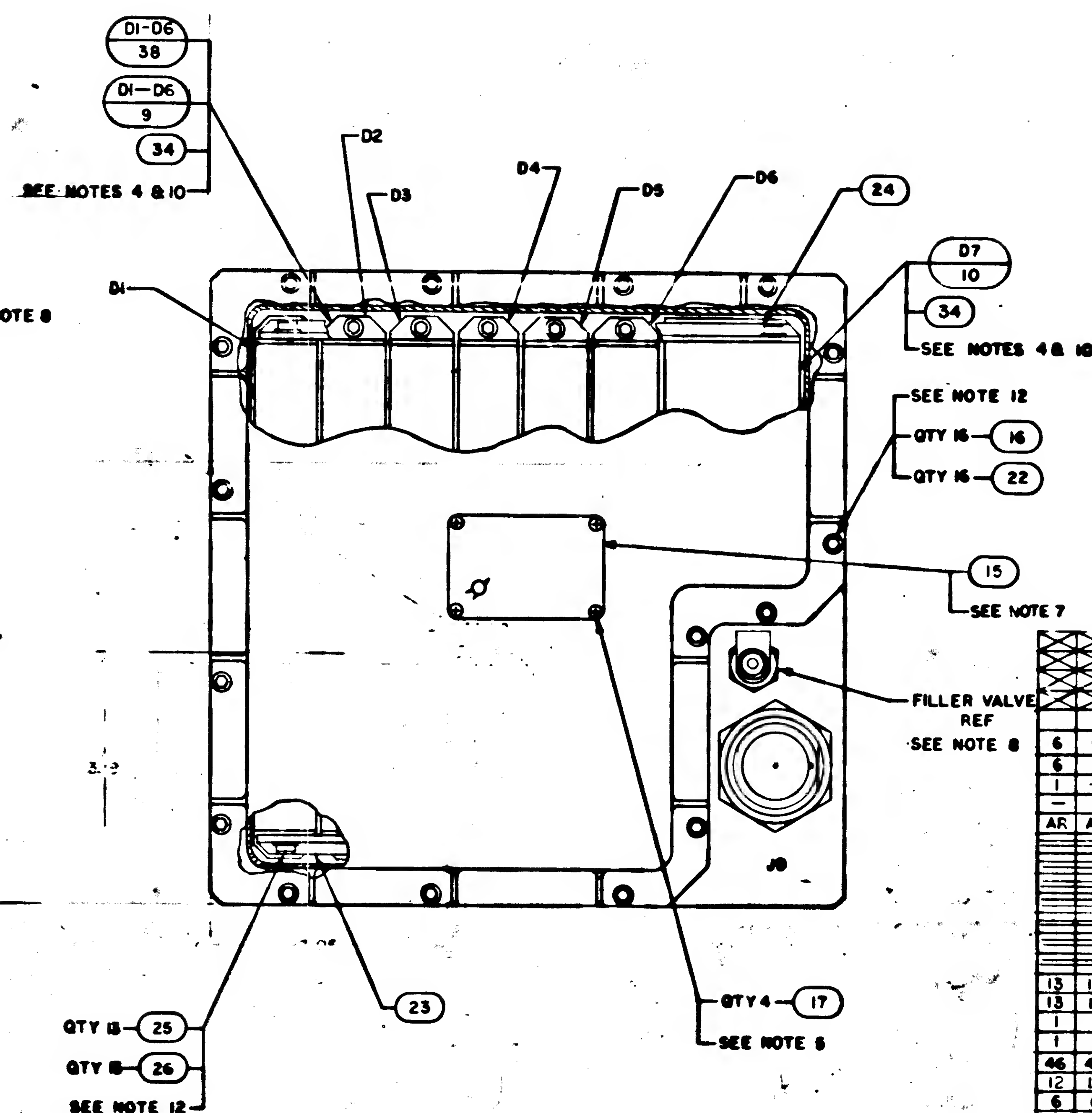
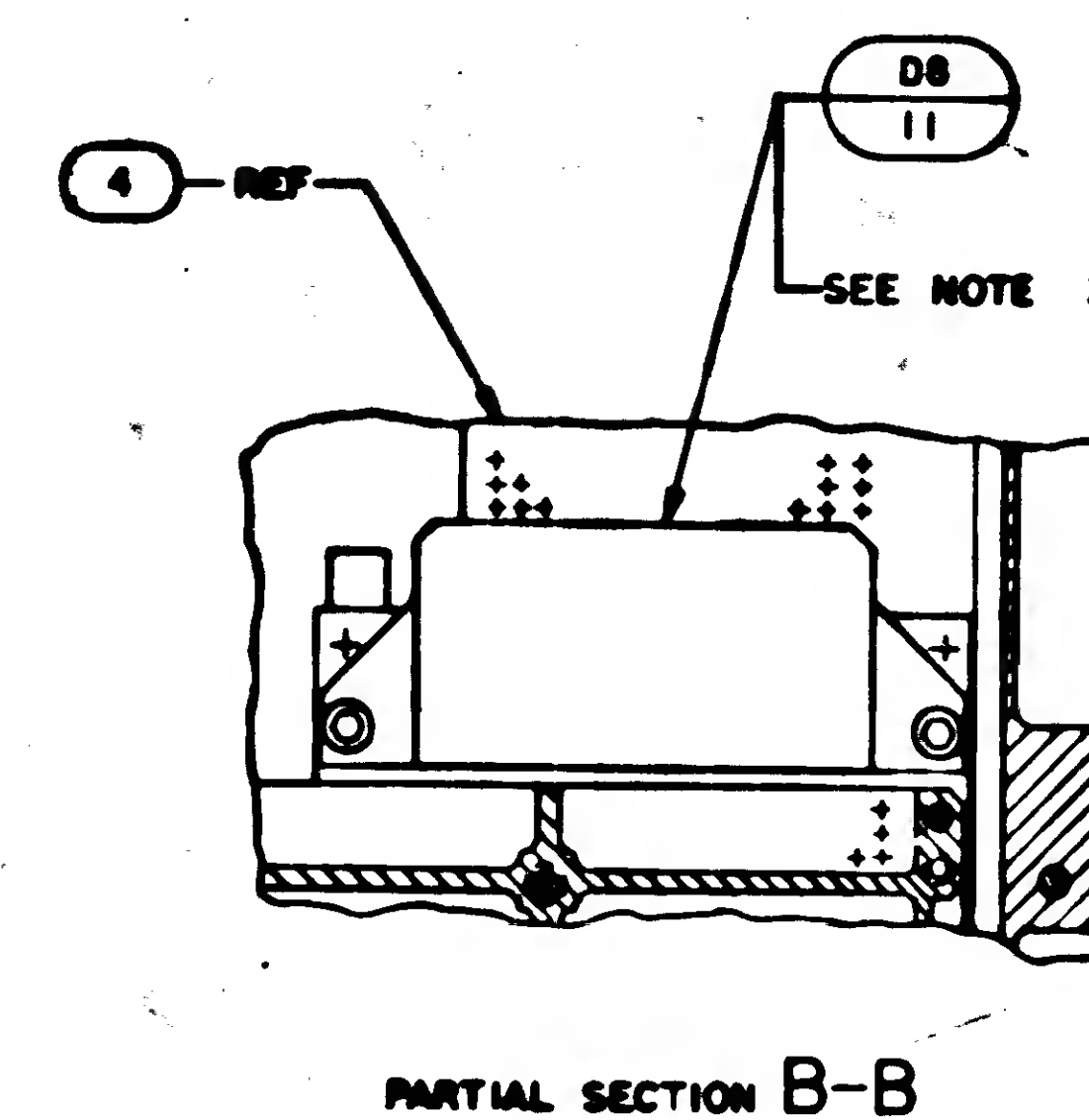
		[01] [02] [01]		REV		LIST OF MATERIALS	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		INSTRUMENTATION LAB COLUMBIA		MANNED SPACECRAFT CENTER HOUSTON TEXAS	
		FRACTIONS DECIMALS ANGLES		REV NO CONTROL			
		= 02		DRAWN BY DATE <i>12/14/66</i>			
		DO NOT SCALE THIS DRAWING		CHECKED BY <i>12/14/66</i>			
		GENERAL		APPROVAL <i>12/14/66</i>		AGC DSKY ASSEMBLY	
				APPROVAL <i>12/14/66</i>			
		HEAT TREATMENT		NADA APPROVAL <i>12/14/66</i>		CODE IDENT NO SIZE	
						80230 J	
NEXT ASSY		LOOSE ON		NADA DRAWING NO		2003985	
Assembled by <i>12/14/66</i>		POOR FINISH		REV APPROVAL <i>12/14/66</i>		<i>12/14/66</i>	



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MARK 10/08 HIGH WHITE CHARACTERS PER NDIO02019 AND NDIO02122, TYPE II, CLASS 2
 3. AND SERIALIZE PER NDIO02023 USING INK 1006271-I
 3. MOUNTING TORQUE FOR FIND NO. 19 AND JACK SCREWS OF FIND NO. 11 TO BE 7-10 INCH POUNDS
 4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 9, 10 & 38 TO BE 15-19 INCH POUNDS
 5. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 17
 - ~~6. BOND FIND NO. 12, 13 TO FIND NO. 3, FIND NO. 14 TO FIND NO. 5, FIND NO. 27, 36, 39 TO FIND NO. 9~~
 - ~~7. FIND NO. 30 TO FIND NO. 10, FIND NO. 31, 32 TO FIND NO. 5, FIND NO. 33 TO FIND NO. 11 PER NDIO02023~~
 7. STAMP CHARACTERS PER NDIO00019 AND SERIALIZE PER NDIO02023
 8. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 105/110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
 9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2003985
 10. APPLY FIND NO. 34 TO MATING SURFACES OF FIND NO. 4, 9, 10 & 38
DO NOT APPLY TO BONDED RUBBER OF FIND NO. 4,
 11. AR DEMOTES AS ROUNDED
 12. MOUNTING TORQUE FOR FIND NO. 16 AND 37 TO BE 8-9 INCH POUNDS
MOUNTING TORQUE FOR FIND NO. 18 AND 26 TO BE 3.5 - 4.5 INCH POUNDS
 13. FIND NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4, 36 OR 36
USING FIND NO. 19, BEFORE INSTALLING FIND NO. 37

2003954										OUTLINE DRAWINGS										
2003957										SIGNAL PIN ASSIGNMENT										
2003951										INTERCONNECTING DIAGRAM										
2003950										SIGNAL FLOW DIAGRAM										
6	6	—	—	—	—	—	—	—	—	2003952-011	INDICATOR DRIVER MODULE DI-D6									
6	6	6	6	6	6	—	—	—	—	MS16995-20	SCREW, CAP, SOCKET HEAD									
1	—	1	—	—	—	—	—	—	—	2003903-031	FRONT HOUSING ASSY									
—	1	—	—	—	—	—	—	—	—	2003903-021	FRONT HOUSING ASSY									
AR	AR	AR	AR	AR	AR	—	—	—	—	006879	SILICONE COMPOUND									
—	—	—	—	—	—	—	—	—	—	2004935-008	GASKET									
—	—	—	—	—	—	—	—	—	—	2004935-008	GASKET									
—	—	—	—	—	—	—	—	—	—	2004935-007	GASKET									
—	—	—	—	—	—	—	—	—	—	2004955-006	GASKET									
—	—	—	—	—	—	—	—	—	—	2004898-008	GASKET									
—	—	—	—	—	—	—	—	—	—	2004988-002	GASKET									
—	—	—	—	—	—	—	—	—	—	2004988-006	GASKET									
13	13	13	13	13	13	—	—	—	—	MS16220-10	SCREW, HEX SOCKET HEAD									
15	15	13	13	13	13	—	—	—	—	NA5620C4	WASHER, FLAT									
1	1	1	1	1	1	—	—	—	—	2004959	BRACKET, MODULE									
1	1	1	1	1	1	—	—	—	—	2004959	BRACKET, MODULE									
46	46	46	46	46	46	—	—	—	—	NA5620C6	WASHER, FLAT									
18	18	18	18	18	18	—	—	—	—	MS4546-4	WASHER, FLAT									
6	6	6	6	6	6	—	—	—	—	MS16633-4014	RING, RETAINING									
6	6	6	6	6	6	—	—	—	—	2004932-001	SCREW, JACKING									
8	8	8	8	8	8	—	—	—	—	1001489-59	WARE, HEX SOCKET HEAD									
4	4	4	4	4	4	—	—	—	—	MS15216-1	SCREW, PAN HEAD, CROSS RECESSED									
32	32	32	32	32	32	—	—	—	—	MS16995-18	SCREW, CAP, SOCKET HEAD									
1	1	1	1	1	1	—	—	—	—	1004260-20	NAMEPLATE									
—	—	—	—	—	—	—	—	—	—	2004935-001	GASKET									
—	—	—	—	—	—	—	—	—	—	2004935-006	GASKET									
1	1	1	1	1	1	—	—	—	—	2004929-001	SCREW									
1	1	1	1	1	1	—	—	—	—	2003909-011	KEYBOARD MODULE ASSY D6									
1	1	1	1	1	1	—	—	—	—	2003901-011	POWER SUPPLY ASSY MODULE DB									
—	—	6	6	6	6	—	—	—	—	2003902-011	INDICATOR DRIVER MODULE DI-D6									
1	1	1	1	1	1	—	—	—	—	1006349	GASKET, BONDED, RUBBER									
1	1	1	1	1	1	—	—	—	—	1006350	GASKET, BONDED, RUBBER									
1	1	1	1	1	1	—	—	—	—	2004900	COVER, REAR									
1	1	1	1	1	1	—	—	—	—	2003954-011	MAIN HOUSING ASSY									
1	1	1	1	1	1	—	—	—	—	2003903-031	FRONT HOUSING ASSY									
1	1	1	1	1	1	—	—	—	—	2004935	INDICATOR, DIGITAL									
1	1	1	1	1	1	—	—	—	—	1006316	INDICATOR, ALARM									
1	1	1	1	1	1	—	—	—	—	2004929-011	COVER, FRONT									

0151047 031 021 011		LIST OF MATERIALS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .01 ± .01 ± .01		MTC INSTRUMENTATION LAB CHRYSLER DIV DETROIT, MI 48246	
DO NOT SCALE THIS DRAWING MATERIAL		MANNED SPACECRAFT CENTER HUNTSVILLE, ALAS	
HEAT TREATMENT		AGC DSKY ASSEMBLY	
NEXT APT USED ON	POOL NUMBER	DSKY APPROVAL: <i>[Signature]</i> DATE: <i>10/15/64</i>	CODE IDENT NO 80230 J SCALE: 1/1 SHEET: 1
NADA DRAWING NO 2003985		NADA DRAWING NO 2003985	

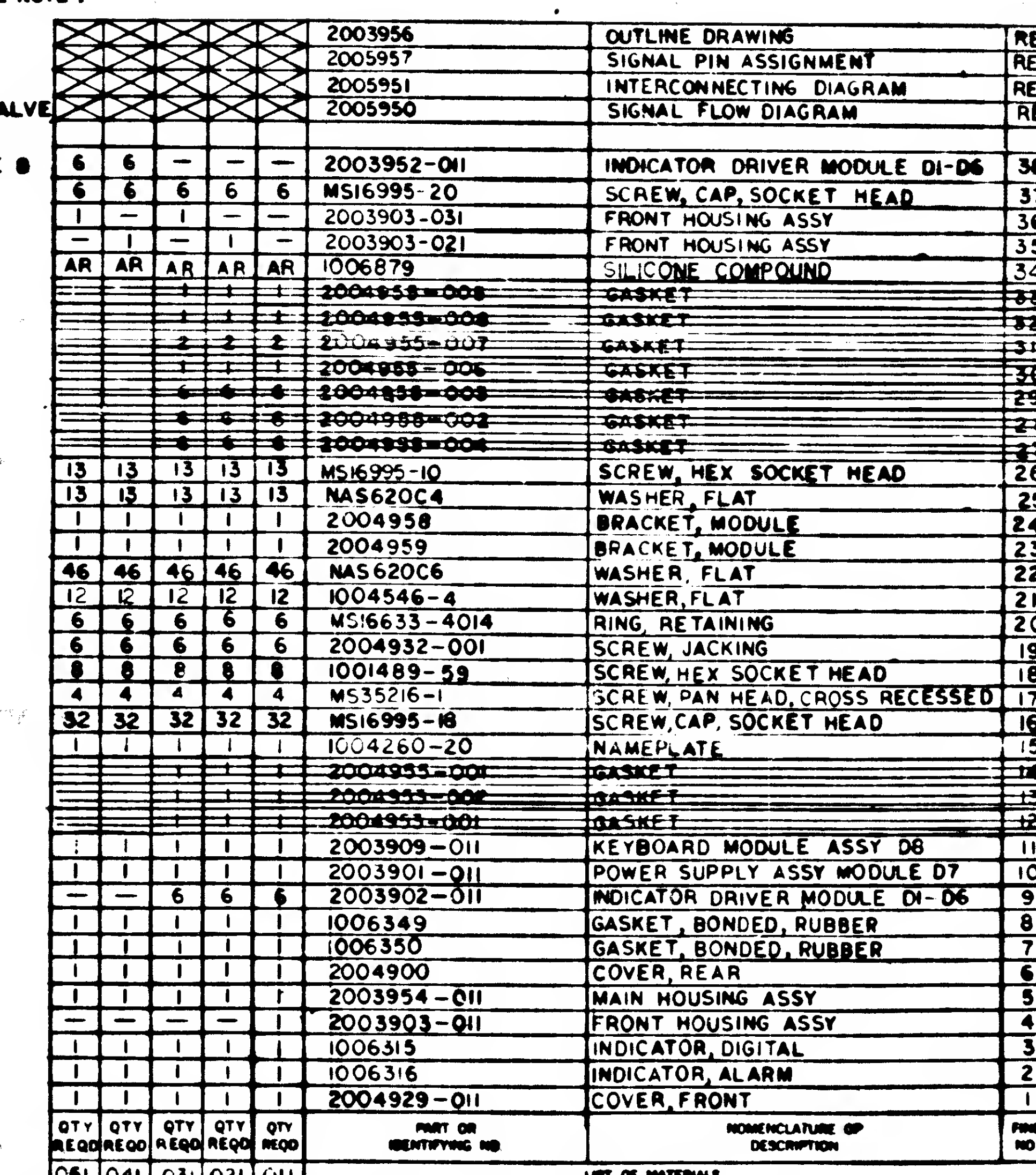
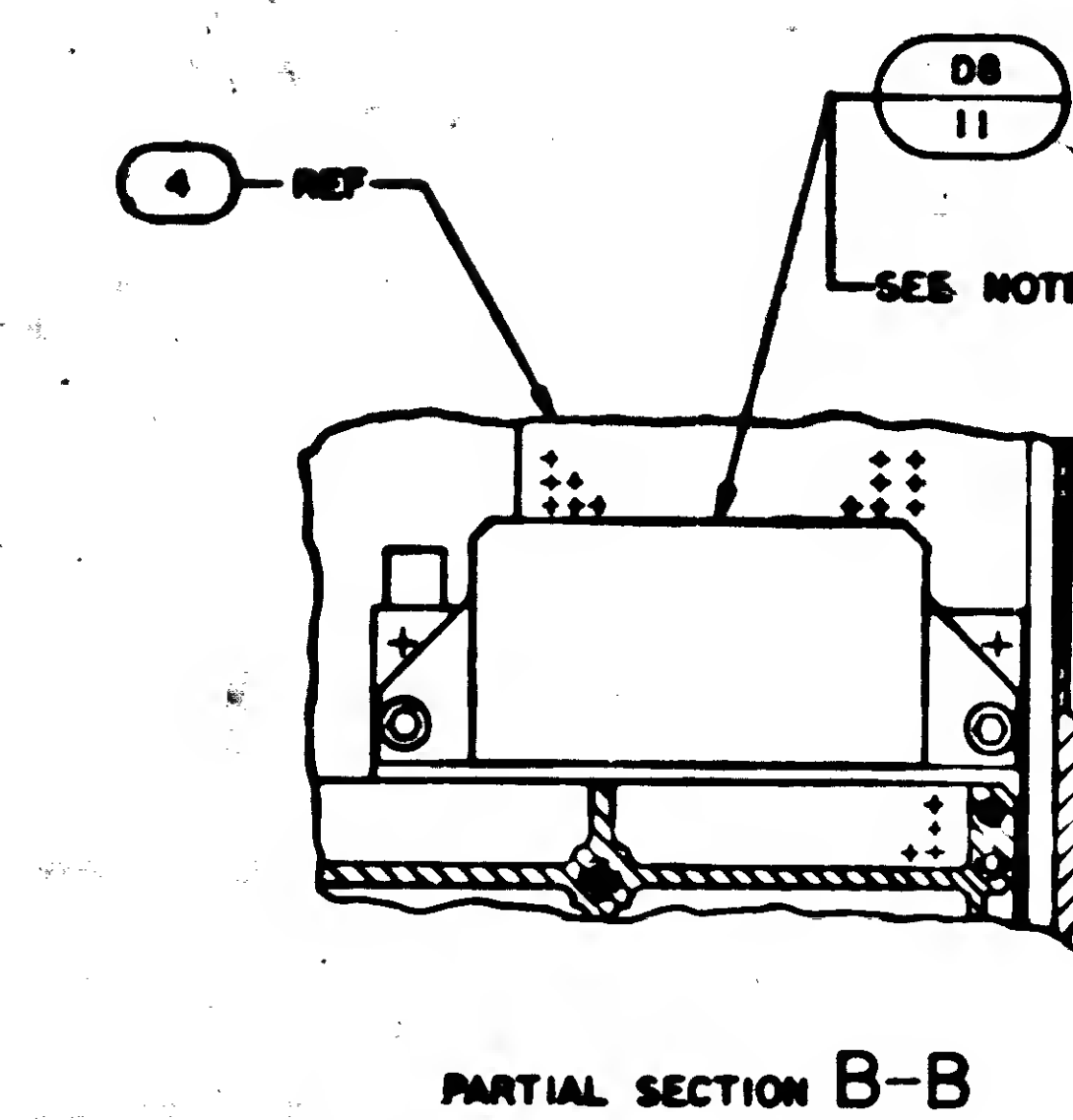


					2003956	OUTLINE DRAWING	RE
					2003957	SIGNAL PIN ASSIGNMENT	RE
					2003951	INTERCONNECTING DIAGRAM	RE
					2003950	SIGNAL FLOW DIAGRAM	RE
6	6	—	—	—	20 39562-01	INDICATOR DRIVER MODULE DI-D6	34
6	6	6	6	6	MS1699F-20	SCREW, CAP, SOCKET HEAD	31
1	1	1	1	1	2003901-031	FRONT HOUSING ASSY	31
1	1	1	1	1	2003903-021	FRONT HOUSING ASSY	31
AR	AR	AR	AR	AR	006879	SILICONE COMPOUND	34
1	1	1	1	1	2004955-006	GASKET	14
1	1	1	1	1	2004958-008	GASKET	14
1	1	1	1	1	2004959-006	GASKET	14
1	1	1	1	1	2004968-008	GASKET	14
1	1	1	1	1	2004988-008	GASKET	14
1	1	1	1	1	2004988-006	GASKET	14
13	13	13	13	13	MS1699F-10	SCREW, HEX SOCKET HEAD	21
13	13	13	13	13	MS1620C4	WASHER, FLAT	21
1	1	1	1	1	2004958	BRACKET, MODULE	24
1	1	1	1	1	2004959	BRACKET, MODULE	24
46	46	46	46	46	MS1620C6	WASHER, FLAT	23
12	12	12	12	12	1004546-4	WASHER, FLAT	21
6	6	6	6	6	MS16633-4014	RING, RETAINING	21
6	6	6	6	6	2004932-001	SCREW, JACKING	15
8	8	8	8	8	1004935-59	SCREW, HEX SOCKET HEAD	15
4	4	4	4	4	MS35216-1	SCREW, PAN HEAD, CROSS RECESSED	15
32	32	32	32	32	MS1699F-16	SCREW, CAP, SOCKET HEAD	15
1	1	1	1	1	1004260-20	NAMEPLATE	16
1	1	1	1	1	2004955-008	GASKET	14
1	1	1	1	1	2004955-006	GASKET	14
1	1	1	1	1	2004955-001	GASKET	14
1	1	1	1	1	2004959-011	GASKET	14
1	1	1	1	1	2003901-011	KEYBOARD MODULE ASSY D6	10
1	1	1	1	1	2003901-011	POWER SUPPLY ASSY MODULE D7	10
1	1	6	6	6	2003902-011	INDICATOR DRIVER MODULE DI-D6	9
1	1	1	1	1	1006349	GASKET, BONDED, RUBBER	8
1	1	1	1	1	1006350	GASKET, BONDED, RUBBER	7
1	1	1	1	1	2004900	COVER, REAR	6
1	1	1	1	1	2003954-011	MAIN HOUSING ASSY	5
1	1	1	1	1	2003903-011	FRONT HOUSING ASSY	4
1	1	1	1	1	2004935	INDICATOR, DIGITAL	3
1	1	1	1	1	1006316	INDICATOR, ALARM	2
1	1	1	1	1	2004929-011	COVER, FRONT	1
QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PRQ NO.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- ~~2. MARK 100-008 WITH CHARACTERIZATION PER ND0002019 AND SERIAL NO. ND0002019~~
- ~~3. SERIALIZE PER ND0002019 USING INK 1004371E~~
3. MOUNTING TORQUE FOR FIND NO. 19 AND JACK SCREWS OF FIND NO. 11 TO BE 7-10 INCH POUNDS
4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO.5,9,10 & 38 TO BE 15-19 INCH POUNDS
5. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO.17
- ~~6. FINE-FIND NO.1, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797,~~

[051][041][031][021][011]				LIST OF MATERIALS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS OR DECIMALS		MTY INSTRUMENTATION LAB Cambridge TEL NO. (617) 552-1111		MANNED SPACECRAFT CENTER HUNTSBORO, TEXAS	
PARTS NO. <u>202</u> SERIALS <u>202</u> DATE <u>2-2-68</u> CHECKED <u>[Signature]</u> APPROVED <u>[Signature]</u> APPROVAL <u>[Signature]</u>		AGC DSKY ASSEMBLY			
DO NOT SCALE THIS DRAWING MATERIAL		NASA APPROVAL <u>[Signature]</u>		CODE IDENT NO. <u>80230</u>	SIZE <u>J</u>
HEAT TREATMENT		NASA DRAWING NO. <u>2003985</u>		NEXT APP. USED ON	
APPLICATION		NOT APPROVED <u>[Signature]</u>		SCALE 1/1	



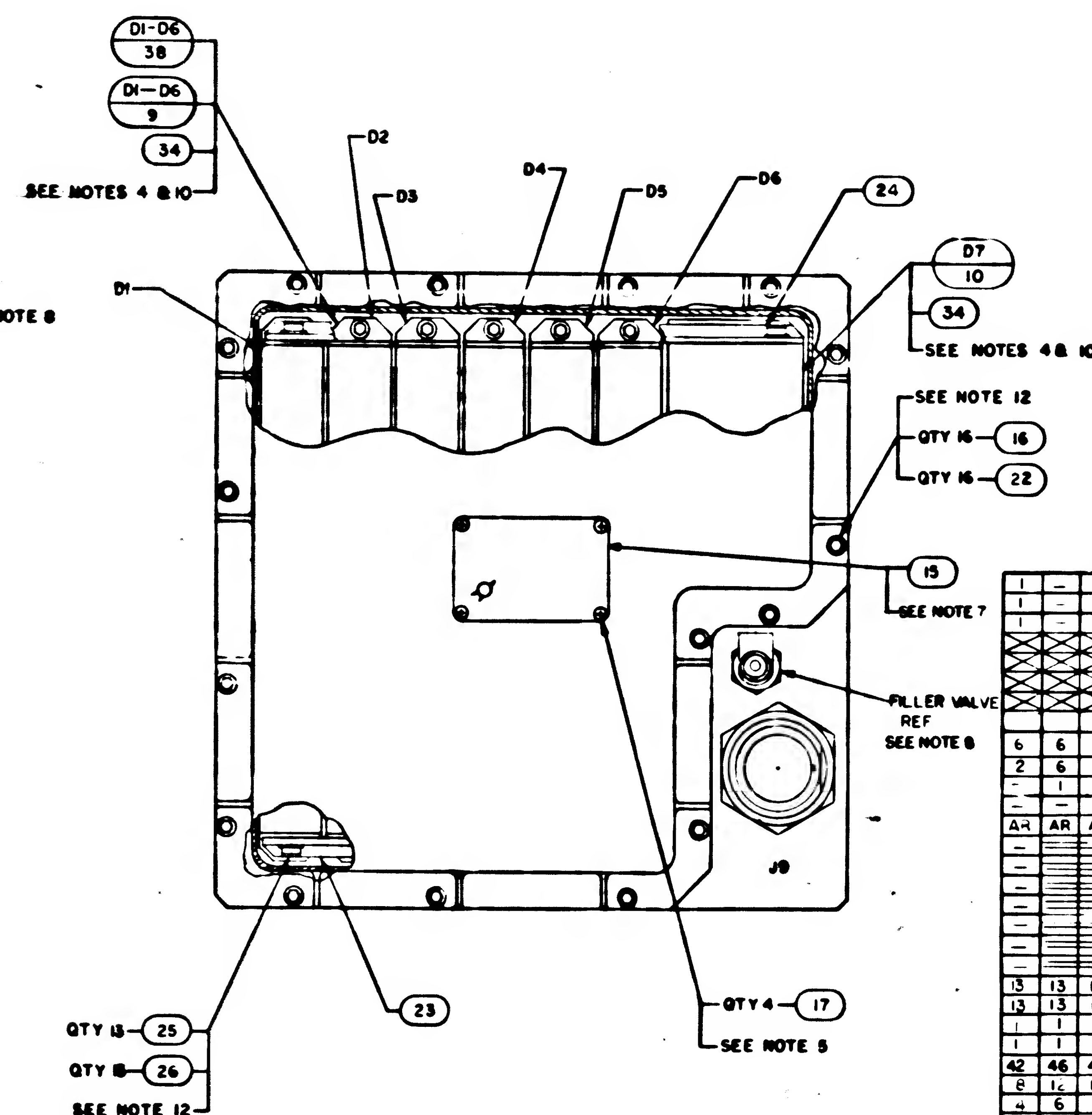
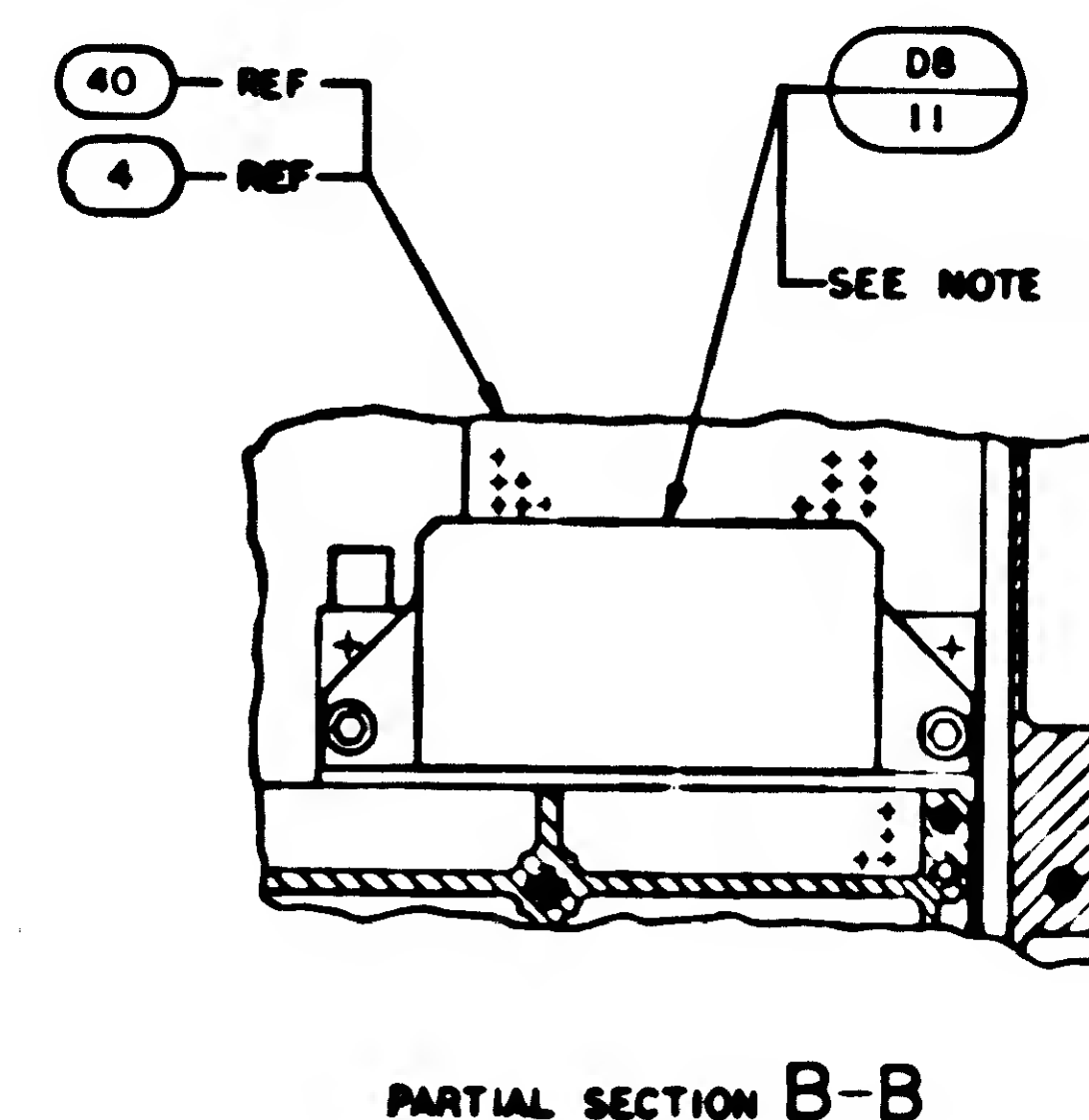
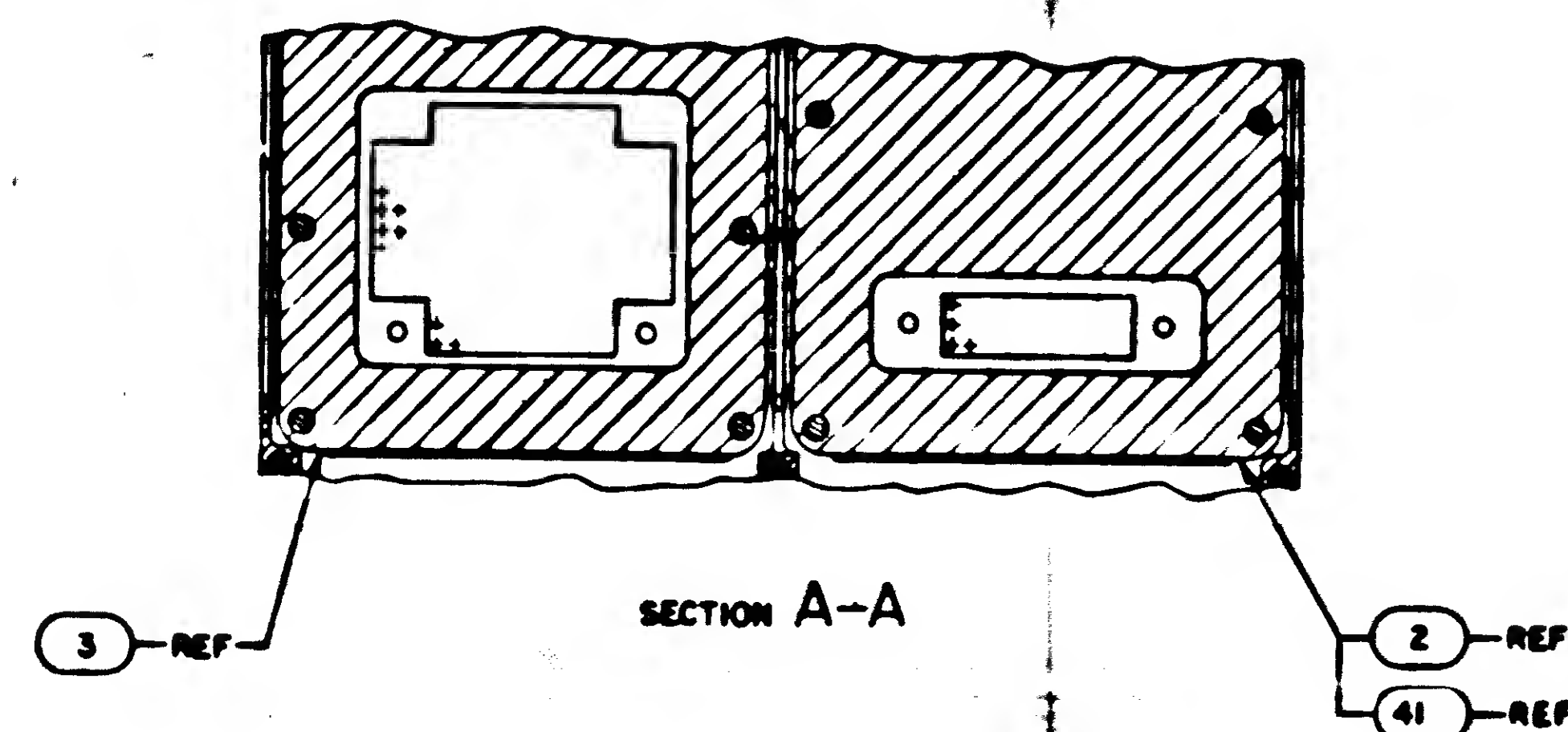
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7033
2. MARK "AGC" ON DSKY ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO. AND MARKING TO BE PER ND1002019 AND SERIALIZE PER ND1002023
3. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 11 TO BE 8-9 INCH POUNDS
4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 9, 10 & 38 TO BE 15-19 INCH POUNDS
5. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 17
6. BOND FIND NO. 12 IS TO FIND NO. 3, FIND NO. 4 TO FIND NO. 5, FIND NO. 27, 28, 29 TO FIND NO. 30 TO FIND NO. 10, FIND NO. 34, 35 TO FIND NO. 5, FIND NO. 38 TO FIND NO. 4
7. MARK "AGC DSKY ASSEMBLY" AND ITS RESPECTIVE PART NO., SERIAL NO. AND MARKING TO BE PER ND1002019 AND SERIALIZE PER ND1002023
8. FILL WITH A MEDIUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 105/LIO ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING THE REQUIREMENTS OF P62003985
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET THE REQUIREMENTS OF P62003985
10. APPLY FIND NO. 34 TO MATING SURFACES OF FIND NO. 4, 9, 10, & 38 DO NOT APPLY TO BONDED RUBBER OF FIND NO. 4
11. AR DENOTES AS REQUIRED
12. MOUNTING TORQUE FOR FIND NO. 16, 18 & 37 TO BE 8-9 INCH POUNDS
13. MOUNTING TORQUE FOR FIND NO. 26 TO BE 35-45 INCH POUNDS
14. FIND NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 4, 35 OR 36 USING FIND NO. 19. BEFORE INSTALLING FIND NO. 37

POSTER

AGC DSKY ASSEMBLY

CODE IDENT NO	SIZE	NASA DRAWING NO
30230	J	2003985

SCALE 1/1	WT	SHEET 1
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1	—	—	—	—	—	2003885—0H	INDICATOR ALARM & COVER ASSY	41
2	—	—	—	—	—	2003903-04I	FRONT HOUSING ASSY	40
3	—	—	—	—	—	2004739	COVER, FRONT	39
4	—	—	—	—	—	2003956	CUTLINE DRAWING	38
5	—	—	—	—	—	2005957	SIGNAL PIN ASSIGNMENT	REF
6	—	—	—	—	—	2005951	INTERCONNECTING DIAGRAM	REF
7	—	—	—	—	—	2005950	SIGNAL FLOW DIAGRAM	REF
8	6	6	—	—	—	2003952-0H	— INDICATOR DRIVER MODULE DI-D6	38
9	2	6	6	6	6	M516995-20	SCREW, CAP, SOCKET HEAD	37
10	—	—	—	—	—	2003963-02I	FRONT HOUSING ASSY	36
11	—	—	—	—	—	2003903-02I	FRONT HOUSING ASSY	36
12	AR	AR	AR	AR	AR	1006879	SILICONE COMPOUND	34
13	—	—	—	—	—	2004953=008	GASKET	33
14	—	—	—	—	—	2004953=008	GASKET	32
15	—	—	—	—	—	2004953=007	GASKET	31
16	—	—	—	—	—	2004953=007	GASKET	30
17	—	—	—	—	—	2004953=009	GASKET	29
18	—	—	—	—	—	2004953=009	GASKET	28
19	—	—	—	—	—	2004953=008	GASKET	27
20	13	13	13	13	13	M516925-10	SCREW, HEX SOCKET HEAD	26
21	13	13	13	13	13	M52602C4	WASHER, FLAT	25
22	1	1	1	1	1	2004958	BRACKET, MODULE	24
23	1	1	1	1	1	2004958	BRACKET, MODULE	23
24	42	46	46	46	46	M452026C	WASHER, FLAT	22
25	6	6	6	6	6	1004546-4	WASHER, FLAT	21
26	4	6	6	6	6	M516633-4014	RING, RETAINING	20
27	4	6	6	6	6	2004932-001	SCREW, JACKING	19
28	2	8	8	8	8	1001489-59	SCREW, HEX SOCKET HEAD	18
29	4	4	4	4	4	M53716-1	SCREW, PAN HEAD, CROSS RECESSED	17
30	32	32	32	32	32	M516995-10	SCREW, CAP, SOCKET HEAD	16
31	1	1	1	1	1	1004426-0	PLATE, ALUMINUM	15
32	—	—	—	—	—	2004953-001	GASKET	14
33	—	—	—	—	—	2004953-001	GASKET	13
34	1	1	1	1	1	2003909-0H	KEYBOARD MODULE ASSY D6	12
35	1	1	1	1	1	2003901-3H	POWER SUPPLY ASSY MODULE D7	11
36	—	—	6	6	6	2003902-0H	INDICATOR DRIVER MODULE DI-D6	9
37	1	1	1	1	1	1006349	GASKET, BONDED, RUBBER	8
38	1	1	1	1	1	1006350	GASKET, BONDED, RUBBER	7
39	1	1	1	1	1	2004900	COVER, REAR	6
40	1	1	1	1	1	2003954-0H	MAIN HOUSING ASSY	5
41	—	—	—	—	—	2003903-03I	FRONT HOUSING ASSY	4
42	1	1	1	1	1	1006315	INDICATOR, DIGITAL	3
43	—	—	—	—	—	1006316	INDICATOR, ALARM	2
44	—	—	—	—	—	2004929-0H	COVER, FRONT	1
QTY REQ'D	QTY REQ'D	QTY REQ'D	QTY REQ'D	QTY REQ'D	QTY REQ'D	PRINT OR IDENTIFYING NO	DESCRIPTION OR IDENTIFICATION	REQ'D NO

[illegible]

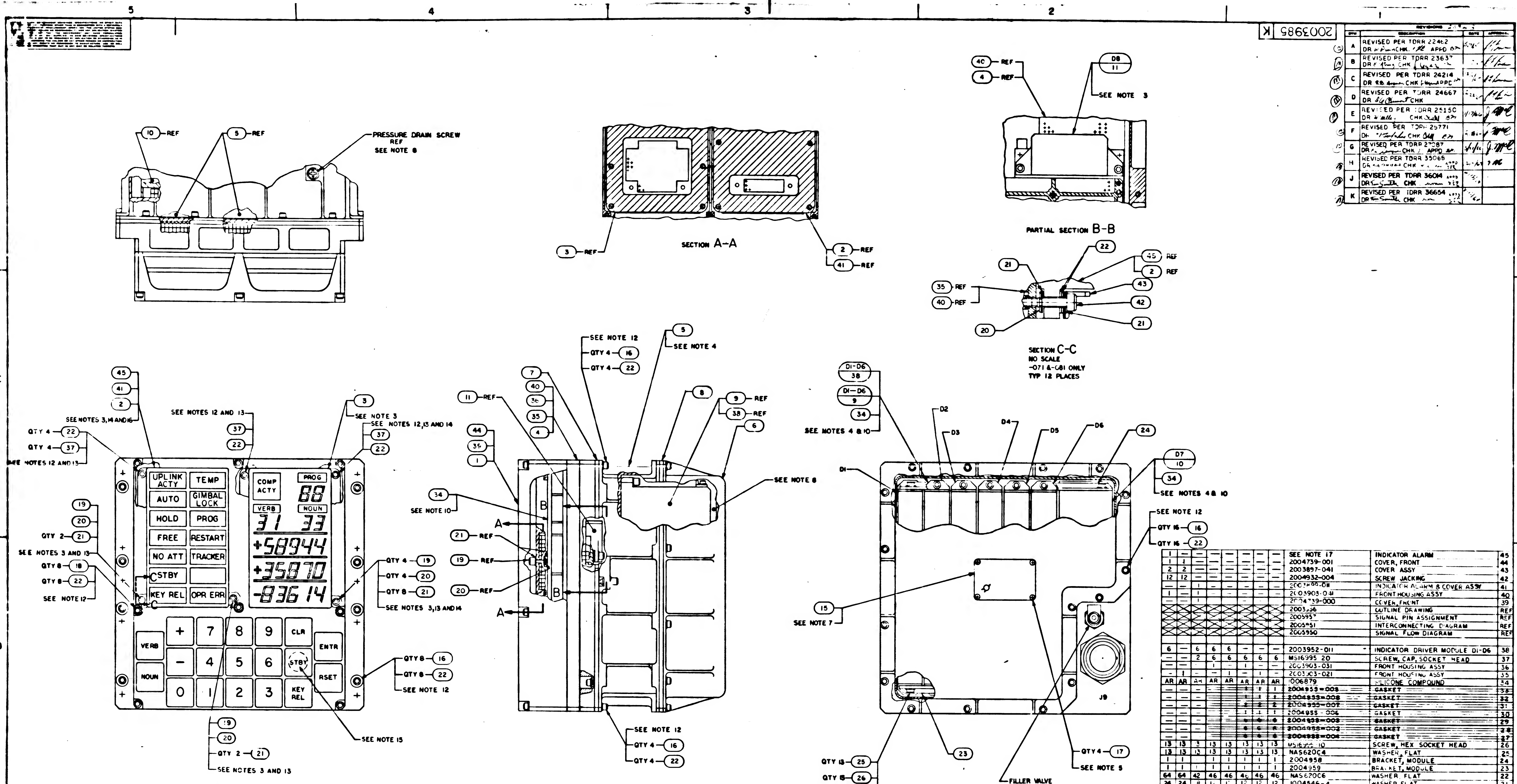
-061	1 THRU 12, 14 THRU 16
-051	1 THRU 13 AND 15
-041	1 THRU 13 AND 15
-031	1 THRU 13 AND 15
-021	1 THRU 13 AND 15
-011	1 THRU 13 AND 15
DASH NO	APPLICABLE
NOTE APPLICATION	

2003985	H
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AGC DSKY ASSEMBLY

80230	J
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2003985



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ~~REVISIONS TO THIS DRAWING ARE TO BE MADE BY THE DESIGNER~~
3. MOUNTING TORQUE FOR FIND NO. 11 AND JACK SCREWS OF FIND NO. 11 AND 41 TO BE 85-95 INCH POUNDS
4. MOUNTING TORQUE FOR JACK SCREWS OF FIND NO. 5, 10, 33, 36 TO BE 15-19 INCH POUNDS
5. APPLY SEALING COMPOUND PER 1008953-004 TO FIND NO. 17
6. BOND FIND NO. 12, 13 TO FIND NO. 3; FIND NO. 14 TO FIND NO. 2; FIND NO. 15, 16, 17 TO FIND NO. 3
7. MARK AGC DSKY ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO. AND CONTRACT NO. MARKING TO BE PER ND1002019 AND SERIALIZE PER ND1002023
8. FILL WITH A MINIMUM OF 87% NITROGEN AND 8.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 105/110 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2003985
10. APPLY FIND NO. 34 TO MATING SURFACES OF FIND NO. 4, 9, 10, 36, 33, 36, 40 DO NOT APPLY TO BONDED RUBBER OF FIND NO. 4, 35, 36, 40
11. AR DENOTES AS REQUIRED
12. MOUNTING TORQUE FOR FIND NO. 16, 18, 37 TO BE 8-9 INCH POUNDS MOUNTING TORQUE FOR FIND NO. 26 TO BE 35-45 INCH POUNDS
13. FILL FEMALE INSULATORS OF FIND NO. 4, 35 OR 36 USING SILICONE COMPOUND PER 1008954 PRIOR TO ASSEMBLY OF FIND NO. 2 & FIND NO. 3
14. FILL FEMALE INSULATOR OF FIND NO. 40 USING SILICONE COMPOUND PER 1008954 PRIOR TO ASSEMBLY OF FIND NO. 3 FINE NO. 3
15. TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FIND NO. 19 BEFORE INSTALLING FIND NO. 37. FIND NO. 41 TO BE INSTALLED USING EXISTING JACKING SCREWS
16. THE -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052, -053, -054, -055, -056, -057, -058, -059, -060, -061, -062, -063, -064, -065, -066, -067, -068, -069, -070, -071, -072, -073, -074, -075, -076, -077, -078, -079, -080, -081, -082, -083, -084, -085, -086, -087, -088, -089, -090, -091, -092, -093, -094, -095, -096, -097, -098, -099, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -120, -121, -122, -123, -124, -125, -126, -127, -128, -129, -130, -131, -132, -133, -134, -135, -136, -137, -138, -139, -140, -141, -142, -143, -144, -145, -146, -147, -148, -149, -150, -151, -152, -153, -154, -155, -156, -157, -158, -159, -160, -161, -162, -163, -164, -165, -166, -167, -168, -169, -170, -171, -172, -173, -174, -175, -176, 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